OUR FARMS, OUR FUTURE

The Next 30 Years of Sustainable Agriculture

April 3-5, 2018 | St. Louis, Missouri

OUR FARMS, OUR FUTURE
THE NEXT 30 YEARS OF SUSTAINABLE AGRICULTURE

SARE
Sustainable Agriculture Research & Education

NCAT ATTRA
SUSTAINABLE AGRICULTURE

Contents

Schedule at a Glance

A GATHERING PLACE

The Our Farms, Our Future conference is an incredible opportunity to join with many key stakeholders in the sustainable agriculture community. Participants will engage in important dialogue about the trajectory of sustainable agriculture for the next 30 years. Engaging panels, technical and issue-oriented breakout sessions, art and storytelling opportunities, long networking breaks, poster sessions, exhibitor booths and farm tours will all contribute to creating an unforgettable experience. The schedule included below provides a basic overview of the conference proceedings.

MONDAY, APRIL 2

1:00 – 5:00 PM	NCAT/ATTRA's Armed to Farm Alumni Educational Session (Invitation Only)	
5:30 – 7:00 PM	Military Veteran Networking Session Sponsored and Hosted by NCAT/ATTRA	
5:00 – 8:00 PM	Registration	

TUESDAY, APRIL 3

7:00 AM	Registration, poster and exhibit set-up	
8:30 AM	Welcome and conference overview	*Regency Ballroom*
8:40 AM	Keynote Address by Deputy Secretary Steve Censky, USDA	*Regency Ballroom*
9:00 AM	Envisioning the Next 30 Years of Sustainable Agriculture: A Conversation with USDA Leaders	*Regency Ballroom*
9:45 AM	Networking break, posters and exhibits on display	
10:30 AM	Breakout session #1 (choice of 8 breakout sessions)	
Noon	Lunch	*Regency Ballroom*
1:00 PM	Breakout session #2 (choice of 8 breakout sessions)	
2:30 PM	Networking break, posters and exhibits on display (90-minutes) During the networking break, participants will be able to elect to attend one of two special sessions from 2:45 – 3:45 PM. For more information see page 8	
4:00 PM	Breakout session #3 (choice of 8 breakout sessions)	
5:30 PM	Break for dinner on your own	
7:00 – 10:00 PM	Film Screenings and Young Farmer Mixer	

WEDNESDAY, APRIL 4

7:30 AM	Registration, poster set-up	
8:30 AM	Reflections on the past 30 years of SARE and ATTRA	*Regency Ballroom*
9:00 AM	Envisioning the Next 30 Years of Sustainable Agriculture: Food System Experts Weigh In	*Regency Ballroom*
10:00 AM	Networking break, posters and exhibits on display	
10:30 AM	Breakout session #4 (choice of 8 breakout sessions)	
Noon	Lunch	*Regency Ballroom*
1:00 PM	Breakout session #5 (choice of 8 breakout sessions, repeated from the morning)	
2:30 PM	Networking break, posters and exhibits on display (90-minutes) During the networking break, participants will be able to elect to attend one of two special sessions from 2:45 to 3:45 PM For more information see page 14	
4:00 PM	Taking Root: Farmers and Ranchers Share Their Perspectives on the Next 30 Years of Sustainable Agriculture	*Regency Ballroom*
5:00 PM	Conference adjourns except for bus tour attendees	

THURSDAY, APRIL 5

Farm tours are offered this day, with the first tours leaving at 8:00 AM. See your specific tour for the exact departure time. The tours will be a variety of lengths, with some arriving back at the hotel by noon and others arriving by 4:30 pm. Transportation to tour sites is provided when you reserve your spot. To learn more about the farm tours, visit page 17.

NOTE: If you signed up for a farm tour during your registration process but can no longer attend, please tell the registration desk. And if you were not able to attend the farm tour you wanted to attend due to it being full during registration, come check in with the desk before Wednesday at 5 pm to see if a spot has opened up that you can have.

SUSTAINER'S SPACE – PHOTOGRAPHY EXHIBIT AND ART-MAKING OPPORTUNITIES

All Our Farms, Our Future conference attendees are invited to imagine and co-create possibilities for the next 30 years of sustainable agriculture in our "Sustainer's Space" which is housed in Sterling Studio 6 on the 2nd floor. Come by and use our art supplies to create something to add to the "Wall of Wonder." Grab a postcard, reflect on your ideas and hopes, and write a reminder for yourself that SARE will mail to you after the conference. Learn about soil quilts, and view photos by SARE and ATTRA stakeholders to be inspired about sustainable agriculture. The Sustainer's Space is open Tuesday morning through Wednesday evening. Ask a staff member if you have questions!

ADDITIONAL INFORMATION

To access a list of conference attendees, please visit:
https://ofof.sare.org/conference-attendees/ and enter the code "OFOFGuest2018" to view the list.

Resources about navigating and exploring St. Louis are available at the registration desk, and also at https://ofof.sare.org/explore-st-louis/.

If you are a nursing mother and need access to our Nursing Mother's Room, please see the registration desk.

Breakout Session Schedule

TUESDAY, APRIL 3

All participants may switch among tracks throughout the day

	TRACK A Building Soil Health with Cover Crops and Other Strategies	TRACK B Eating Well Together: Developing Partnerships for a Local Food Economy	TRACK C Ecology and Economics of Grazing for Beef and Dairy	TRACK D Profitable Pigs and Poultry Production
Room	Grand Ballroom D	Grand Ballroom E	Grand Ballroom H	Grand Ballroom A
Breakout Session #1: 10:30 AM – 12:00 PM	The state of soil health and the latest insights on soil biology	Rules, regulations and scale	Animal behavior in grazing management	Keys to profitably producing pastured poultry
Breakout Session #2: 1:00 – 2:30 PM	Opportunities across the Corn Belt and Northern Plains	Social, economic and environmental impacts of local food systems	Animal impacts on soil health	Alternative methods of pork production
Breakout Session #3: 4:00 – 5:30 PM	Opportunities in the South and in the Pacific Northwest	Developing partnerships in the real world	Market and economic factors of beef and dairy production	Processing and marketing pork and poultry products

WEDNESDAY, APRIL 4

All breakout sessions are repeated unless otherwise noted

	TRACK I Success Stories in Farming and Ranching	TRACK J Launching the Next Generation of Farmers and Ranchers	TRACK K Farming and Ranching in a Changing Climate	TRACK L Water Challenges for the Coming Decades
Room	Grand Ballroom F	Grand Ballroom C	Grand Ballroom G	Grand Ballroom H
Breakout Session #4: 10:30 AM – 12:00 PM* **Breakout Session #5: 1:00 – 2:30 PM***	Individual stories of success from farm families across the US (two unique sessions, non-repeating)	Supporting the next generation, especially when it comes to land access	How farmers and ranchers can make their operations climate resilient	Water quality (10:30 AM) and quantity (1:00 PM) issues facing farmers and ranchers across the country

*Wednesday breakout sessions are repeated unless otherwise noted

TRACK E Successful Small Ruminant Production	TRACK F Surviving and Thriving with Vegetable and Fruit Production	TRACK G The First Years on the Farm or Ranch	TRACK H Transforming Urban Landscapes and Communities with Urban Agriculture	
Grand Ballroom B	**Grand Ballroom G**	**Grand Ballroom C**	**Grand Ballroom F**	
Manage small ruminants for animal and ecosystem health	Optimizing water use	Two major challenges new farmers face and how to manage them (finances and markets)	Urban agriculture in the heart of the country	**Breakout Session #1: 10:30 AM – 12:00 PM**
How to raise small ruminants profitably and sustainably	Manage weeds successfully	New farmers share their hurdles and successes	Climate change and conservation in urban agriculture	**Breakout Session #2: 1:00 – 2:30 PM**
Markets for sheep and goat products	Farm labor in vegetable and fruit production systems	Lessons every farmer and rancher needs to know	How to create long-term, viable urban farming businesses	**Breakout Session #3: 4:00 – 5:30 PM**

TRACK M Addressing the Intersection of Economics and the Environment in Future Food Systems	TRACK N How to Build a Food System	TRACK O Pollinators, Wildlife and Biodiversity on Farms and Ranches	TRACK P Service Learning and Engaged Scholarship Opportunities in Sustainable Agriculture	
Grand Ballroom D	**Grand Ballroom E**	**Grand Ballroom B**	**Grand Ballroom A**	
Conserving natural resources while turning a profit	How to build a food system for the people who take part in it	The role of our food system in supporting pollinators, wildlife and biodiversity	Educating the emerging leaders and scientists supporting the sustainable agriculture community	**Breakout Session #4: 10:30 AM – 12:00 PM*** **Breakout Session #5: 1:00 – 2:30 PM***

Program

MONDAY, APRIL 2

SCHEDULE OVERVIEW

1:00 – 5:00 PM	NCAT/ATTRA's Armed to Farm Alumni Educational Session (Invitation Only)	*Gateway West*
5:30 – 7:00 PM	Military Veteran Networking Session Sponsored and Hosted by NCAT/ATTRA	*Gateway West*
5:00 – 8:00 PM	Registration	

NCAT/ATTRA ARMED TO FARM ALUMNI EDUCATIONAL SESSION (INVITATION ONLY)

1:00 – 5:00 PM | Gateway West

This pre-conference session will bring together veterans from around the U.S. who have completed NCAT/ATTRA's Armed to Farm Sustainable Agriculture Training for Military Veterans. NCAT/ATTRA staff will focus on strategies the Armed to Farm Alumni can use to successfully take their farms to the next level. It will be highly interactive, with breakout sessions on specific production topics and plenty of time for questions. Past Armed to Farm participants will also give short presentations about their farming operations.

About NCAT/ATTRA's Armed to Farm Program
Armed to Farm is a sustainable agriculture training program for military veterans. The program consists of a week-long training that includes classroom sessions on topics such as goal setting, business planning, recordkeeping, marketing, and various production topics. The training also features farm tours and hands-on activities at a variety of successful farms.

EVENING MILITARY VETERAN NETWORKING SESSION

5:30 – 7:00 PM | Gateway East

Join other veterans in the sustainable farming community for this engaging evening session, facilitated by NCAT staff. Attendees will be able to share accomplishments, challenges, and perspectives. Learn from others & build networks of supportive peers.

TUESDAY, APRIL 3

SCHEDULE OVERVIEW

7:00 AM	Registration, poster and exhibit set-up	
8:30 AM	Welcome and conference overview	*Regency Ballroom*
8:40 AM	Keynote: Steve Censky	*Regency Ballroom*
9:00 AM	Plenary Panel Session: Envisioning the Next 30 Years of Sustainable Agriculture - A Conversation with USDA Leaders	*Regency Ballroom*
9:45 AM	Networking break, posters and exhibits on display	*Grand Ballroom Foyer, Park View Room*
10:30 AM	Breakout session #1	*See pages 9 and 10*
Noon	Lunch	*Regency Foyer, Regency Ballroom*
1:00 PM	Breakout session #2	*See pages 10 and 11*
2:30 PM	Networking break, posters and exhibits on display (90-minutes)	*Grand Ballroom Foyer, Park View Room* *See page 17*
2:45 PM	Concurrent special sessions (networking break is still in effect)	*See page 8*
4:00 PM	Breakout session #3	*See pages 11 and 12*
5:30 PM	Break for dinner on your own	
7:00 PM	Film Screenings and Mixer	*Grand Ballroom D and the Regency Ballroom*

EVENT DETAILS

WELCOME AND CONFERENCE OVERVIEW

8:30 – 8:40 AM

Presenters: Rob Myers, NCR-SARE; Rob Hedberg, USDA-SARE

KEYNOTE PRESENTATION

8:40 – 9:00 AM | Regency Ballroom

Presenter: Steve Censky, USDA

Deputy Censky will address a number of areas related to upcoming challenges that may be faced by U.S. agriculture and opportunities to continue improving the sustainability of our food, farming and ranching systems over the next 30 years.

PLENARY PANEL SESSION: ENVISIONING THE NEXT 30 YEARS OF SUSTAINABLE AGRICULTURE - A CONVERSATION WITH USDA LEADERS

9:00 – 9:45 AM | Regency Ballroom

Presenters: Steve Censky, USDA; Krysta Harden, DowDuPont
Moderator: Alan Weber, MARC-IV

This session features an engaging panel discussion on the challenges and opportunities related to the sustainability of U.S. agriculture over the next 30 years. Deputy Secretary Censky will be joined by former Deputy Secretary Krysta Harden in a discussion with moderator Alan Weber. Audience members will be able to write potential questions for the panelists on note cards which will be collected by SARE and ATTRA staff.

NETWORKING BREAK WITH POSTERS AND EXHIBITS

9:45 – 10:30 AM and 2:30 - 4:00 PM | Grand Ballroom Foyer and Park View Room

Enjoy the conference networking breaks each morning and afternoon. Grab a locally-inspired snack in the space outside the Grand Ballroom and make your way over to the Exhibitor tables to network with some inspiring sustainable agriculture organizations. You can also head to the Park View room to talk with SARE Grantees about their projects. In the afternoon, you might also want to check out some of the special sessions taking place on farm policy, graduate student projects and farm to school.

LUNCH
12:00 – 1:00 PM | Regency Ballroom

Join together with the rest of the conference attendees each day at noon for a delicious lunch prepared with some locally-sourced items. The buffet will be set up outside the Regency Ballroom on the second floor, with tables and chairs in the Regency Ballroom for your dining experience!

FEDERAL POLICY AND SUSTAINABLE AGRICULTURE: LOOKING AHEAD
2:45 – 3:45 PM | Grand Ballroom D

Presenters: Ferd Hoefner, NSAC; Margaret Krome, Michael Fields Agricultural Institute

This session will explore the interplay between the sustainable agriculture movement and federal policy reform, with a review of the road we have walked and a focus on the 2018 federal farm bill and Fiscal Year 2019 agricultural appropriations bill that Congress is currently debating, and the path beyond looking into the future of policy change. Two movement veterans in the public policy arena, Ferd Hoefner, senior strategic advisor with the National Sustainable Agriculture Coalition, and Margaret Krome, program director for public policy with the Michael Fields Agricultural Institute, will make presentations and then lead a discussion with session participants. Participants should come away with a good basic grounding on the trajectory of sustainable agriculture programs and policies.

SUSTAINABILITY IN 180 SECONDS
2:45 – 3:45 PM | Grand Ballroom F

Presenters: Moriah Bilenky, Anthony Stephen Dimeglio, Julie Fine, Waana Kaluwasha, Nikola Kochendoerfer, Xiaochi Ma, Muhammed Shafeekh Muyyarikkandy, Andrea Rissing, Hannah Rivedal, Casey Spackman, Qi Zhou

Today's scientists are challenged to not only competently conduct their research, but to effectively explain their work to a broad audience. Our "Sustainability in 180 Seconds" presentations give SARE graduate student grant recipients an opportunity to do exactly that. Eleven students from our four SARE regions will share information about their SARE projects and explain its importance—using one slide, no props, and 180 seconds! Please join us at Sustainability in 180 Seconds to hear from these inspiring and innovative students as they describe their work that tests theories and sustainable solutions to some of the most complex challenges that producers face today.

"FARMERS FOR AMERICA" FILM SCREENING AND YOUNG FARMER MIXER HOSTED BY NATIONAL YOUNG FARMERS COALITION

7:00 – 10:00 PM | Grand Ballroom D

Join The National Young Farmers Coalition for a Young Farmer Mixer featuring a screening of "Farmers for America" and a panel discussion with NYFC Land Access Program Director Holly Rippon-Butler, NCAT/ATTRA Northeast Regional Office Director Andy Pressman and farmer Paul Greive, who is featured in the film. Light snacks and local beverages will be served starting at 7pm, and the film will begin at 7:30pm. This event is open to the entire Our Farms, Our Future conference audience, as well as local Missouri and Illinois residents, farmers, and agriculturalists.

"LIVING SOIL" FILM SCREENING AND PANEL DISCUSSION
7:30 – 9:00 PM | Regency Ballroom

There are also tentative plans to show a second documentary film that will run concurrently with the Farmers for America film screening. Living Soil is a brand new 60-minute film about soil health, and features innovative farmers from diverse regions as well as soil health experts sharing thoughts and ideas about the health of the soil ecosystem, and why farmers are making changes in their farm management. Several of the farmers and scientists featured in the film will be at the conference. At the time this program was going to print, final permission to premiere the film at the conference was still pending, but the plan is to offer it in the Regency Ballroom on the second floor starting at 7:00 pm. Assuming the film is offered, there will be a short panel discussion with a few of the film's farmers, soil health experts, and the film's director immediately after the showing of the film in the same room. All "Living Soil" filmgoers are welcome to join the NYFC mixer in Grand Ballroom D after the program ends.

BREAKOUT SESSIONS

Tuesday, April 3 | 10:30 AM – 12:00 PM

TRACK A – BUILDING SOIL HEALTH WITH COVER CROPS AND OTHER STRATEGIES

Grand Ballroom D

Presenters: Steven Mirsky, Jennifer Moore-Kucera, Joel Gruver

Moderator: Rex Dufour

This session will provide an overview of soil health progress, challenges and opportunities. Participants will explore:

- The latest insights about soil biology as influenced by soil management
- How soil organisms are involved in all aspects of soil function important for agriculture
- Biological "hot spots" in the soil and the key players associated with these hot spots
- Strategies to increase soil organic matter

TRACK B – EATING WELL TOGETHER: DEVELOPING PARTNERSHIPS FOR A LOCAL FOOD ECONOMY

Grand Ballroom E

Presenters: Michelle Miller, Rozie Schleinig

Moderator: Andy Pressman

In this session, participants will explore the topic of scaling local food systems and learn about how rules and regulations can impact local food ventures. Key points include:

- Systems thinking about the move from direct to wholesale marketing
- Transportation challenges in reaching wholesale markets
- Rules and regulations beyond food safety: insurance, customer requirements, growing practices and more

TRACK C – ECOLOGY AND ECONOMICS OF GRAZING FOR BEEF AND DAIRY

Grand Ballroom H

Presenters: Kathy Voth, Greg Judy

Moderator: David Redhage

This session will offer two perspectives about animal behavior in grazing systems. Session highlights include:

- A producer's perspective on how daily relaxed animal moves can improve docility
- Important grazing management practices to improve animal health and performance
- Discussion of how animal behavior can impact the economics and ecology of farms and ranches

TRACK D – PROFITABLE PIGS AND POULTRY PRODUCTION

Grand Ballroom A

Presenters: Will Harris, Jody Padgham, Robin Way

Moderator: Kevin Ellis

In this session, participants will hear from three producers about their key lessons in raising pastured poultry. Key points include:

- How starting with limited production can allow discovery of how poultry fits for you
- The benefits of raising pastured poultry with other pastured livestock
- Best management practices for profitably raising poultry on pasture

TRACK E – SUCCESSFUL SMALL RUMINANT PRODUCTION

Grand Ballroom B

Presenters: Nancy Lunzer, Charlotte Clifford-Rathert, Dahlia O'Brien

Moderator: Margo Hale

How do you manage small ruminants so that they remain healthy and free from pests while also helping eliminate environmental pests and unwanted vegetation? This session will work to answer these questions by featuring:

- The best methods to control buckthorn using sheep and hogs
- How to use goats to control weedy vegetation
- Everything you need to know about worms in 25 minutes – your guide ot effective worm control for small ruminant health

TRACK F – SURVIVING AND THRIVING WITH VEGETABLE AND FRUIT PRODUCTION

Location: Grand Ballroom G

Presenters: Amy Garrett, Trevor Hardy

Moderator: Sanjun Gu

Participants in this session will explore how to optimize water use in fruit and vegetable production systems. Session highlights include:

- An overview of dry farming management practices that support specialty crop production without supplemental irrigation
- Discussion of smart irrigation practices and equipment
- Tips on best water conservation practices relevant to vegetable and fruit producers from across the country

TRACK G – THE FIRST YEARS ON THE FARM OR RANCH: TOOLS, PERSPECTIVES AND LESSONS FOR SUCCESS

Grand Ballroom C

Presenters: Paul Dietmann, Charlotte Smith, Kevin Klair
Moderator: Colette DePhelps

This session will explore how new farmers can effectively manage their finances and develop their markets by touching on the following:

- Business plan development
- How to develop month-by-month cash flow projections, with suggestions for how to plan ahead of time for a cash shortfall
- Tips for focusing your marketing, building your marketing strategy, and taking it online
- Lessons and tools to ensure sound financial management and farm financial success

TRACK H – TRANSFORMING URBAN LANDSCAPES AND COMMUNITIES WITH URBAN AGRICULTURE

Grand Ballroom F

Presenters: Molly Rockamann, Mary Ostafi, Dre Taylor
Moderator: Katherine Kelly

While consumer demand for local, fresh produce rises, the populations of urban areas across the country also grow. These trends highlight the need for urban agriculture in its many forms. In this session, you'll explore three types of urban agriculture in Missouri and learn:

- How an organic farm school in Ferguson trains new farmers and develops markets for urban farm products
- How rooftop farming contributes to a local food system and community development, with St. Louis's Food Roof Farm as an example
- How one organization's aquaponics system in Kansas City grows people, diversifies the urban landscape and uses innovation to succeed

Tuesday, April 3 | 1:00 – 2:30 PM

TRACK A – BUILDING SOIL HEALTH WITH COVER CROPS AND OTHER STRATEGIES

Grand Ballroom D

Presenters: Barry Fisher, Heather Darby, Dan DeSutter, Marisol Berti
Moderator: Dean Bass

This session will start participants on a journey across the country, to explore what farmers, ranchers, researchers and educators are doing to improve soil health in their regions. Key highlights of this session include:

- How to to interseed cover crops into standing corn and soybean
- A look at cover crop management strategies that optimize nutrient cycles for corn and soybean
- Strategies for improving soil health in far northern regions

TRACK B – EATING WELL TOGETHER: DEVELOPING PARTNERSHIPS FOR A LOCAL FOOD ECONOMY

Grand Ballroom E

Presenters: Keiko Tanaka, Becca Jablonski, Devona Bell
Moderator: Thea Rittenhouse

What are the impacts of local food systems in terms of sustainability? This session will explore this topic by looking at the three tiers of sustainability and working to understanding how local foods impact the environment, economy and peoples' lives. Session highlights include:

- Discussion of farm and ranch profitability impacts of local markets
- Exploration of wage, labor and community economic implications
- Identification of some of the specific ways that local food systems impact the social and environmental components of a community

TRACK C – ECOLOGY AND ECONOMICS OF GRAZING FOR BEEF AND DAIRY

Grand Ballroom H

Presenters: Jeffrey Creque, Francis Thicke
Moderator: Nina Prater

Participants in this session will explore how animals impact soil health, from both a theoretical and a practical perspective. Session highlights include:

- Delving into the results of research informing the theory and practice of managing livestock for improved soil conditions and carbon sequestration
- Exploring animal management practice implications for drought resilience and economic opportunities
- Understanding specific ways to manage cows as agents of ecological evolution to regenerate soils, create biodiverse landscapes and contribute to healthy people and local economies

TRACK D – PROFITABLE PIGS AND POULTRY PRODUCTION

Grand Ballroom A

Presenters: Silvana Pietrosemoli, John Arbuckle, Chuck Talbott
Moderator: Wayne Martin

This session will explore opportunities to improve the sustainability of pork production by looking at alternative methods, including:

- Pastured pork systems that lead to improved animal welfare, reduced production costs, minimized environmental impacts, farm product diversity and increased profitability
- Revegitating pastures with annuals as forage and finishing hogs on acorns
- Turning your pork passion into a paycheck with strong business management

TRACK E – SUCCESSFUL SMALL RUMINANT PRODUCTION

Grand Ballroom B

Presenters: Steve Hart, Greg Brann
Moderator: Ray McKinnie

In this session, participants will learn about how small ruminant production can be done so that it's both profitable and sustainable. Key points include:

- How to have sustainable vegetation management with sheep and goats
- The importance of budgeting for profitability
- One producer's experience with raising small ruminants as part of a diversified, multi-species herd

TRACK F – SURVIVING AND THRIVING WITH VEGETABLE AND FRUIT PRODUCTION

Grand Ballroom G

Presenters: Eric Gallandt, Jean-Paul Courtens
Moderator: Zelalem Mersha

Weed management is a critical component of every fruit and vegetable production system, but how can it be done successfully and sustainably? This session will explore the answers to this question, featuring:

- A discussion of how improving weed management requires seed and seedling focused tactics
- Dialogue about the importance of crop rotation, green manures, seedbed preparation and other practices in a farmer's weed management toolkit
- Insights about selecting the right weed management tools and practices

TRACK G – THE FIRST YEARS ON THE FARM OR RANCH: TOOLS, PERSPECTIVES AND LESSONS FOR SUCCESS

Grand Ballroom C

Presenters: Adam Reed, David Paulk, Erika Muhammad, Josh Payne
Moderator: Lelan Dixon

In this session, four new farmers in the first 10 years of their farming career will share their experiences in an interactive panel discussion. Session highlights include:

- Discussion about the greatest challenges and barriers facing beginning farmers today
- Enlightening exploration of the best opportunities for new farmers to confront the challenges to their success
- Sharing of resources to better support new farmers

TRACK H – TRANSFORMING URBAN LANDSCAPES AND COMMUNITIES WITH URBAN AGRICULTURE

Grand Ballroom F

Presenters: Sarah Taylor-Lovell, Ben Flanner
Moderator: Nelson Daniels

Like all farmers, urban farmers have a responsibility and a need to conserve their resources, while also responding to urban heat waves and extreme weather events correlated with a changing climate. In this session, participants will explore how urban farmers can do these things, with key points including:

- How tree crops offer a more resilient solution for urban agriculture
- The role that climate change adaptation plays in selecting plants for urban agriculture
- How rooftop agriculture can conserve resources while producing local, urban produce

Tuesday, April 3 | 4:00 – 5:30 PM

TRACK A – BUILDING SOIL HEALTH WITH COVER CROPS AND OTHER STRATEGIES

Grand Ballroom D

Presenters: Jodie Reisner, Carlene Chase, Perry Miller, Kent Wasson
Moderator: Sheldon Jones

This session is the final chapter in Tuesday's soil health journey, taking participants across the country to explore how soil health practices are implemented in various climates and productions systems. Session highlights include:

- A look at how cover crops are used in Florida in specialty crop systems
- An understanding of how the cropping conditions on the Southern Plains shape the culture of agriculture and the opportunities for soil health practice adoption there
- Discussion of one farmer's philosophy about how "nothing we do is for today" and how that applies to soil health practices

TRACK B – EATING WELL TOGETHER: DEVELOPING PARTNERSHIPS FOR A LOCAL FOOD ECONOMY

Grand Ballroom E

Presenters: Dan Cornelius, Lane Selman, Sandi Kronick
Moderator: Thea Rittenhouse

In this session, hear from three individuals that work with organizations working to build strong, local food systems. Key points include:

- How to combine the traditional and the modern to engage Tribal agricultural educators and community members in an Indigenous farm to table model

- How increasing communication between stakeholders in the food community can result in more relevant and desirable cultivars
- How to strengthen local farmers' access to markets through a cooperative approach

TRACK C – ECOLOGY AND ECONOMICS OF GRAZING FOR BEEF AND DAIRY

Grand Ballroom H

Presenters: Greg Halich, Jody Osmund
Moderator: Lee Rinehart

This session will explore the economics and profitability of grazing systems through the lens of a researcher and a farmer. Participants will also hear about:

- An evaluation of the stocking rate, hay-feeding tradeoff by using multiple production and cost scenarios that will allow you to determine the optimal stocking rate/hay feeding based on the specifics of your farm
- How the two factors having the most impact on optimal hay feeding days are base profitability of the operation and net hay cost
- Effective markets for and marketing of pasture-based meat products, according to one Illinois producer

TRACK D – PROFITABLE PIGS AND POULTRY PRODUCTION

Grand Ballroom A

Presenters: Eric Klein, Paul Greive, Beth Osmund
Moderator: Annie Donoghue

This session will explore what today's producers are doing to succeed in processing and marketing their pastured animal products. Session highlights include:

- A look at how Hidden Stream Farm endeavored to build its own USDA-inspected processing plant and the value this project has added to the farm
- One producer's key tips on how to sell one million dollars of meat without stepping foot in a farmer's market
- Lessons learned from operating a successful meat-CSA in Illinois

TRACK E – SUCCESSFUL SMALL RUMINANT PRODUCTION

Grand Ballroom B

Presenters: Jean Mueller, Linda Coffey, Veronica Baetje, Yvonne Zweede-Tucker
Moderator: Thomas Schroeder

There's an exciting diversity in sheep and goat products, but which products are profitable and which markets are the best to tap into? In this session, participants will explore these topics by hearing from three small ruminant producers and experts about their market experience. Key points include:

- How meat goats can meet U.S. consumer demand while providing extra value to the farm or ranch
- The perception of natural fibers in the marketplace, and how to build a local woolen fiber product
- Tips, firsthand lessons and resources about producing and marketing sheep and goat dairy products

TRACK F – SURVIVING AND THRIVING WITH VEGETABLE AND FRUIT PRODUCTION

Grand Ballroom G

Presenters: Mary Peabody, Sarah Lloyd
Moderator: Justin Duncan

Finding, training and retaining employees is essential to the success of any farm operation. In this session, participants will dive into the topic of farm labor. Session highlights include:

- Unpacking the farm labor puzzle by exploring farmer readiness, how to find and retain employees and certain legal issues associated with farm labor
- Results of a farm labor practice case study of CSA farmers and farm workers in Wisconsin
- Discussion on building fairness into labor relationships

TRACK G – THE FIRST YEARS ON THE FARM OR RANCH: TOOLS, PERSPECTIVES AND LESSONS FOR SUCCESS

Grand Ballroom C

Presenters: Andre' LaVar Barbour, Guy Ames, Jeanne Carver, Joe Tomandl
Moderator: Carol Delaney

In this session, experienced farmers and ranchers will share their most important lessons in an interactive panel discussion. Anyone seeking to learn about how to find success in their farm or ranch or for the farmers and ranchers they know will enjoy listening to the wisdom of these four incredible producers.

TRACK H – TRANSFORMING URBAN LANDSCAPES AND COMMUNITIES WITH URBAN AGRICULTURE

Grand Ballroom F

Presenters: Brennan Washington, Amy Matthews, Karen Washington
Moderator: Mike Hogan

In this session, participants will hear from three urban farmers about how they've worked to create sustainable, robust urban farming businesses. Session highlights include:

- A discussion of the importance of capital, self-care and land value to aspiring urban farmers
- A look at one replicable model to consider when starting an urban farm business
- Engaging insights on the current landscape, future pitfalls and promising developments in urban agriculture

WEDNESDAY, APRIL 4

SCHEDULE OVERVIEW

7:30 AM	Registration, poster set-up	
8:30 AM	Reflections on the past 30 years of SARE and ATTRA	*Regency Ballroom*
9:00 AM	Plenary Panel Session: Envisioning the Next 30 Years of Sustainable Agriculture – Food System Experts Weigh In	*Regency Ballroom*
10:00 AM	Networking break, posters and exhibits on display	*Grand Ballroom Foyer, Park View Room*
10:30 AM	Breakout session #1	*See pages 14, 15 and 16*
Noon	Lunch	*Regency Foyer, Regency Ballroom*
1:00 PM	Breakout session #2	*See page 16*
2:30 PM	Networking break, posters and exhibits on display (90-minutes)	*Grand Ballroom Foyer, Park View Room* *See page 20*
2:45 PM	Concurrent special sessions (networking break is still in effect)	*See page 14*
4:00 PM	Plenary Panel Session: Taking Root - Farmers and Ranchers Share Their Perspectives on the Next 30 Years of Sustainable Agriculture	*Regency Ballroom*
5:00 PM	Conference adjourns except for bus tour attendees	

EVENT DETAILS

REFLECTIONS ON THE PAST 30 YEARS OF SARE AND ATTRA

8:30 – 9:00 AM | Regency Ballroom

Presenters: Rob Myers, Kim Kroll, Guy Ames, Rex Dufour

Take a look back through time at the efforts of SARE and ATTRA over the past 30 years with help from two representatives from each program.

PLENARY PANEL SESSION: ENVISIONING THE NEXT 30 YEARS OF SUSTAINABLE AGRICULTURE – FOOD SYSTEM EXPERTS WEIGH IN

9:00 – 10:00 AM | Regency Ballroom

Presenters: Charlie Jackson, ASAP; Beth Robertson-Martin, General Mills; Stefani Millie-Grant, Unilever; Errol Schweizer

Moderator: Sami Tellatin, NCR-SARE

This session will feature an engaging discussion with four food system experts on their vision for the future of sustainable agriculture. The panelists will discuss how the entire food system is currently responding to today's challenges and how it can rise to meet future challenges and opportunities. Participants will have the opportunity to pose questions to the panelists.

NETWORKING BREAK WITH POSTERS AND EXHIBITS

10:00 – 10:30 AM and 2:30 – 4:00 PM | Grand Ballroom Foyer and Park View Room

Enjoy the conference networking breaks each morning and afternoon. Grab a locally-inspired snack in the space outside the Grand Ballroom and make your way over to the Exhibitor tables to network with some inspiring sustainable agriculture organizations. You can also head to the Park View room to talk with SARE Grantees about their projects. In the afternoon, you might also want to check out some of the special sessions taking place on farm policy, graduate student projects and farm to school.

LUNCH

12:00 – 1:00 PM | Regency Ballroom

Join together with the rest of the conference attendees each day at noon for a delicious lunch prepared with some locally-sourced items. The buffet will be set up outside the Regency Ballroom on the second floor, with tables and chairs in the Regency Ballroom for your dining experience!

FEDERAL POLICY AND SUSTAINABLE AGRICULTURE: LOOKING AHEAD

2:45 – 3:45 PM | Grand Ballroom D

Presenters: Ferd Hoefner, NSAC; Margaret Krome, Michael Fields Agricultural Institute

For description see page 8

THE BUSINESS OF FARM TO SCHOOL: HOW SALES TO SCHOOL MEAL PROGRAMS CAN SUPPORT FARM ECONOMIC VIABILITY

2:45 – 3:45 PM | Grand Ballroom H

Presenter: Andrea Northup, USDA FNS

Schools are viable sales options for America's farmers, with approximately 4.9 billion school lunches served across the country each year to 30 million students per day. In this $6.6 billion school food market, about 32% of schools are buying local food and many more are interested in developing purchasing relationships with farmers. However, "breaking in" to the school market can sometimes be confusing or daunting. Schools have federal procurement rules they must follow, but there are many ways they can serve food from local farmers to students.

Learn how to speak the language of school food and about the opportunities to sell to school districts in your area. Hear about agricultural producers who have established fruitful sales relationships with schools and how it has impacted their bottom lines. We'll discuss some of the models for selling to schools, best practices, and "lessons learned." You may be surprised by some of the unintended, positive results of farm to school relationships. Walk away from the meeting with an understanding of "next steps" to explore for your farm business, and know what resources are out there to support you.

PLENARY PANEL SESSION: TAKING ROOT - FARMERS AND RANCHERS SHARE THEIR PERSPECTIVES ON THE NEXT 30 YEARS OF SUSTAINABLE AGRICULTURE

4:00 PM – 5:00 PM | Regency Ballroom

Presenters: Keith Berns, Green Cover Seed; Faith Gilbert, Letterbox Farm Collective; Anna Jones Crabtree, Vilicus Farms; Wayne Swanson, Swanson Family Farms
Moderator: Rob Myers, NCR-SARE

Farmers and ranchers are the iconic champions of American agriculture. Their perspectives greatly shape the agricultural landscape, and their familiarity with hands-on agricultural issues makes them uniquely qualified to speak to the needs, challenges and opportunities for the future of sustainable agriculture. This panel will feature an enlightening discussion with four visionary producers about the next 30 years of sustainable agriculture. Participants will have the opportunity to pose questions to the panelists.

BREAKOUT SESSIONS

Wednesday, April 4 | 10:30 AM – 12:00 PM

TRACK I – SUCCESS STORIES IN FARMING AND RANCHING

Grand Ballroom F

Presenters: Audrey Berns, Keith Berns, Matt Freund, Theresa Freund
Moderator: Debi Kelly

In the morning session of this two-part track, we'll hear from two farming families about their experiences working with a family member to build a successful business. Key points include:

- How Audrey Berns, Keith Berns and their family distribute roles and responsibilities, communicate blessings and frustrations and work towards their vision and purpose on their family farm and cover crop business
- A look at how one couple has worked together to diversify their dairy farm and add value to their products

This session features success stories, and is the first of two unique sessions.

TRACK J – LAUNCHING THE NEXT GENERATION OF FARMERS AND RANCHERS

Location: Grand Ballroom C

Presenters: Sheri Doyel, Holly Rippon-Butler, Savi Horne
Moderators: Jill Auburn (morning), Mary Hendrickson (afternoon)

In this session, participants will learn about the challenges facing new farmers and ranchers and how to support them in the coming years. Sessions highlights include:

- Discussion of how to improve land access for new farmers in a time of land development
- A brief overview of land loss in African American communities, and discussion of novel forms of land ownership, sharing and control that are emerging to meet the growing demand for land
- Key lessons learned from the Farm Beginnings Collaborative about how best to support new farmers

This session is repeated and will have a strong emphasis on discussion about new farmer and rancher challenges and opportunities.

TRACK K – FARMING AND RANCHING IN A CHANGING CLIMATE

Grand Ballroom G

Presenters: Laura Lengnick, AG Kawamura, Ron Rosmann
Moderators: Julie Doll (morning), Andrea Basche (afternoon)

Farmers and ranchers today are facing the effects of a changing climate. How can they manage this challenge and what can future farmers and ranchers do to mitigate and

adapt to climate change? This session will explore these questions, through these key points:

- Managed for resilience, agriculture and food systems can be a source of solutions to some of the 21st century's most wicked challenges
- How a farm in Iowa has responded to a changing climate through a diversity of farming, marketing and partnerships, while also considering how to lower carbon dioxide levels and sequester carbon
- Supporting the urban agriculture renaissance by embracing the nexus between food, water, energy and technology and seeking unusual collaborations will help sustain agriculture, and ultimately civilization

This session is repeated and will have a strong emphasis on discussion.

TRACK L – WATER CHALLENGES FOR THE COMING DECADES

Grand Ballroom H

Presenters: Rebecca Power, Lamonte Garber
Moderator: Laura Lewis

This session will explore the issue of water quality as it relates to sustainable agriculture. Session highlights include:

- Learning about the water quality challenges we currently face
- Discussing how farmers, ranchers, researchers and educators can work together to improve water quality across the country

This session is part of the Water Challenges breakout track and is the first of two sessions.

TRACK M – ADDRESSING THE INTERSECTION OF ECONOMICS AND THE ENVIRONMENT IN FUTURE FOOD SYSTEMS

Grand Ballroom D

Presenters: Elizabeth Reaves, Maria Bowman, Seth Watkins
Moderators: Ann Thrupp (morning), Lee Meyer (afternoon)

This session will explore the connection between two of the components of sustainability – economics and the environment – and will feature an opportunity for audience members to participate in an engaging discussion with speakers on this topic. Session highlights include:

- Discussion of the roles of the public and private sectors in creating a truly sustainable and economically viable food system
- A look at current knowledge regarding the adoption of conservation and soil health practices in the U.S.
- One farmer's story about what happened when his priorities changed from production to stewardship

TRACK N – HOW TO BUILD A FOOD SYSTEM

Grand Ballroom E

Presenters: Jennifer Hashley, Jim Dyer, Malik Yakini, Nancy Creamer
Moderators: Jessica Goldberger (morning); Nancy Williams (afternoon)

In this session, four speakers will explore the ways we can work to build a sustainable food system locally and nationally. Highlights include:

- Addressing how the future of sustainable agriculture lies in evolving partnerships coming together to address inequities
- Discussion of the opportunities provided by Farm to Institution programs to producers of various scales, and how FTI can support distribution to smaller rural communities
- Dialogue around the importance of viable career pathways for next generation farmers, and how to develop strategies to promote entrepreneurship and economic vaiability among beginning farmers

This session is repeated and will occur once in the morning and once in the afternoon. There will be a strong component of discussion in both sessions.

TRACK O – POLLINATORS, WILDLIFE AND BIODIVERSITY ON FARMS AND RANCHES

Grand Ballroom B

Presenters: Eric Lee-Mäder, Beth Robertson-Martin, Cassandra Wilcoxen, Doug Crabtree
Moderators: Fabian Menalled (morning), Ryan Stockwell (afternoon)

Participants in this session will learn from four speakers about the connections between agriculture and ecosystems. An engaging discussion will allow participants to explore these topics further with the speakers after their presentations. Highlights of this session include:

- A discussion of the importance of involving every part of the value chain in the effort to support biodiversity
- Research about how cover crops benefit migratory and resident birds
- One farmer's perspective on the importance of addressing environmental and ecosystem concerns in agriculture
- Details about some practices that promote pollinator and wildlife habitat on a dryland, organic crop farm

TRACK P – SERVICE LEARNING AND ENGAGED SCHOLARSHIP OPPORTUNITIES IN SUSTAINABLE AGRICULTURE

Grand Ballroom A

Presenters: Amber Marlow, Kim Niewolny, Krista Jacobsen
Moderators: Beth Nelson (morning), Shoshanah Inwood (afternoon)

The next generation of agricultural researchers, educators and professionals need to engage in meaningful learning about sustainable agriculture. Features of this session include:

- Exploration of how to create meaningful natural and social science learning opportunities for students in today's sustainable agriculture disciplines
- Discussion of the role of social justice values in sustainable agriculture education
- Understanding of the significance and challenges of interdisciplinary and intersectional approaches in sustainable agriculture education

This session is repeated and will occur once in the morning and once in the afternoon. There will be a large focus on discussion during this session.

Wednesday, April 4 | 1:00 – 2:30 PM

Unless specified below, all sessions are repeated. Therefore, to see the descriptions and locations for the 1:00 PM sessions of breakout tracks J, K, M, N, O and P, please reference the previous section "Wednesday, April 4 | 10:30 AM – 12:00 PM."

TRACK I – SUCCESS STORIES IN FARMING AND RANCHING

Grand Ballroom F

Presenters: Hana Newcomb, Hiu Newcomb, Don Bustos
Moderator: Daniel Prial

In the afternoon session of this two-part track, we'll hear from two farming families about building a successful business. Session highlights include:

- Hiu and Hana Newcomb will talk about their experience working together as mother and daughter to maintain a successful CSA program in Virginia, discussing their ownership model, their work force and their family, which is now in its fourth generation of farm-raised folks
- Don Bustos will talk about his farm in New Mexico and share not only his farm's history and philosophy, but its future including Don's endeavor to farm with his nephew
- Discussion of challenges and opportunities with land and market access, community building, talent acquisition and retention, and more.

This session features success stories, and is the second of two unique sessions.

TRACK L – WATER CHALLENGES FOR THE COMING DECADES

Grand Ballroom H

Presenters: Clay Landry, Jake Madison
Moderator: Laura Lewis

Water quantity issues are of great concern to farmers and ranchers across the country. This session will explore current water quantity challenges and opportunities, and will feature:

- One producer's perspective of how to manage water quantity challenges on the farm, including getting creative and using industrial waste water as a resource
- A discussion of the broader water quantity challenges and opportunities facing us today and tomorrow

This session is part of the Water Challenges breakout track and is the second of two sessions.

Tuesday Poster Session – Park View Room 4th Floor

Each day there will be a different set of posters shown for a full day, and the authors will be present from 2:30 PM – 4:00 PM on the day they're presenting.

NO. TUESDAY APRIL 3 | 10 – 10:30 AM; 2:30 – 4:00 PM

1 Anthelmintic efficacy of pelleted cranberry leaf powder against experimental Haemonchus contortus infection in lambs. **CARLY BARONE** | University of Rhode Island

2 Identifying ewes resistant to gastrointestinal parasitic worms during gestation and lactation. **JOAN BURKE** | USDA-ARS | Booneville AR

3 Enhancing Productivity of Sheep through greater access and use of genetically evaluated breeding stock. **DOOLARIE SINGH-KNIGHTS** | West Virginia University

4 Reduced Pesticide Fly Control in Feedlots and Native Rangeland to Conserve Dung Beetles and Benefit Beef and Sheep Production. **LINDA SIMMONS** | Twin Brooks SD

5 Reclamation of Nutrients and Irrigation Waters from Livestock Wastewater. **ALON RABINOVICH** | Rutgers University

6 Whole Farm Nutrient Mass Balances for Outcome-based Adaptive Management of Nutrients on Dairy Farms. **QUIRINE KETTERINGS** | Cornell University

7 Improving Weight Gain in Goats Grazing Cover Crops Selected through Soil Health Samples. **SUSAN JASTER** | Lincoln University

8 Training cattle to graze medusahead and avoid velvet lupine: A new tool to sustain the economic viability of livestock operations in the Western US. **CASEY SPACKMAN** | Utah State University

9 Detection and prevention of footrot outbreak in sheep and goats. **TUMEN WULIJI** | Lincoln University

10 Staphylococcus mastitis, biofilms, and antibiotic resistance: Barriers to milk quality and food safety on artisanal and farmstead cheese producing farms in Vermont. **ROBERT MUGABI** | University of Vermont

11 Testing N efficient, high methionine corn hybrids with organic farmers. **WALTER GOLDSTEIN** | Mandaamin Institute WI

12 Ensuring Sustainable Agriculture in the Face of a Changing Climate. **JULIE DOLL** | Michigan State University

13 Developing perennial grain cropping systems and market opportunities in the Northeast. **EUGENE LAW** | Cornell University

14 Establishing a service provider network for alternative grain crops in Pennsylvania. **KRISTY BORRELLI** | Pennsylvania State University

15 Two Compost Experiments. **PHEAREN KIT** | Utah State University

16 Adapting to Climate Change in the Pacific Northwest: Promoting Adaptation with Five Minute Videos of Agricultural Water Conservation and Management Practices. **LIZ WHITEFIELD** | Washington State University

17 Increasing the viability of heirloom dry bean production in the Northeast. **HEATHER DARBY** | University of Vermont

18 Building Resilience and Flexibility into Midwest Organic Potato Production: Participatory Breeding and Seed Potato Production. **RUTH GENGER** | University of Wisconsin

19 Tomato variety trials for flavor, quality and agronomic performance, to increase high-value direct marketing opportunities for farmers and on-farm trialing capacity. **LAURA JESSEE** | University of Wisconsin

20 Tomato Grafting: Developing Grower Recommendations for the Great Plains and Enhancing Our Understanding of the "Rhizobiome". **CARY RIVARD** | Kansas State University

21 Exploring Two Underutilized Native American Food Crops. **REAGAN WYTSALUCY** | Utah State University

22 Winter squash: extending the season and expanding the uses. **JENNIFER WETZEL** | Oregon State University

23 The Sustainability of Organic Farms under the H2A Program: Evaluating the Program's Effects on Mitigating Farm Labor Shortages and Maintaining Business Viability. **ODEIDRA WILLIAMS** | University of Georgia

Each day there will be a different set of posters shown for a full day, and the authors will be present from 2:30 PM – 4:00 PM on the day they're presenting.

24 A Guide to Common Organic Gardening Questions: Step by step recommendations for Organic Vegetable and Fruit Gardening in Northern Utah. **KATIE WAGNER** | Utah State University

25 Biochar Amendment to Enhance Tomato and Melon Productivity and Protect Against Phytophthora Root Rot Disease. **MARION MURRAY** | Utah State University

26 Learning about organic soil and pest management from the experiences and data of expert farmers. **ALEXANDRA STONE** | Oregon State University

27 Do cover crops stabilize wine grape productivity in a variable climate? **SUZANNE FLEISHMAN** | Pennsylvania State University

28 The Mango Loa Project. **UMI MARTIN** | Waimea HI

29 SSARE Young Scholar Internship: Extending the Market Season with High Tunnel Technology for Sustainable Organic Fruit Production. **KENNETH BUCK** | University of Arkansas

30 Extending the Market Season with High Tunnel Technology for Organic Berry Production. **CURT ROM** | University of Arkansas

31 Developing tools to improve communication between farmers and farm workers around fruit farm practices. **JAMES O'CONNELL** | Cornell University

32 Alternative growing practices for oyster mushroom cultivation in the Northeast. **WILLIE CROSBY** | Fungi Ally | Hadley MA

33 Organic weed management using chemically and microbially designed compost extracts. **GLADIS ZINATI** | Rodale Institute | Kutztown PA

34 Mechanical and biological strategies to remove invasive Bermuda grass in preparation for organic vegetable production on raised beds. **JENNIFER TAYLOR** | Lola's Organic Farm | Glenwood GA

35 Enhancing Natural Enemy Systems: Biocontrol Implementation for Peachtree Borers. **DAVID SHAPIRO-ILAN** | USDA-ARS | Byon GA

36 Bovine-avian Interactions on Dairies: Improving Cow Welfare and Farm Economic Stability by Implementing Effective and Sustainable Pest Bird Deterrence Methods. **AMBER ADAMS-PROGAR** | Washington State University

37 The Conservation Biological Control Short Course. **THELMA HEIDEL-BAKER** | Xeres Society | Portland OR

38 INSIDE OUT: Hawaii's honeybee colony dynamics and the farm services provided. **ETHEL VILLALOBOS** | University of Hawaii

39 Understanding aphidophagous hoverfly winter survival strategies in Midwest farmscapes to improve conservation biological control. **SCOTT CLEM** | University of Illinois

40 Beekeeper Education and Support in NW Iowa. **DUANE BAJEMA** | Dordt College IA

41 Developing a method to capture and authenticate single varietal honey on diverse landscapes. **RACHEL COVENTRY** | Second Nature Honey | Urbana IL

42 The Southwest Survivor Queenbee Project. **MELANIE KIRBY** | Washington State University

43 Development of Good Food Farmers Network: A replicable model of farmer-owned joint marketing and sales. **HILARY CORSUN** | Dog Wood Farm & Good Food Farmers Network | Old Chatham NY

44 How Local Food System Development Affects the Sustainability of Agriculture: The Impact of Farmer-Consumer Interactions on Production Practices. **ALLISON PERRETT** | Appalachian Sustainable Agriculture Project | Asheville NC

45 Moving the NC Local Food System Toward Sustainability: A Comprehensive Graduate Course in Local Food Systems for Cooperative Extension Agents, Specialists, and Other Educators. **JOANNA MASSEY LELEKACS** | North Carolina State University

46 Food Hubs and the Regional Food System: Refining Our Understanding of Best Practices from Foodsheds to Operations. **CARLOS CISNEROS** | University of Georgia

47 Collaborative Food Supply Chains for Iowa's Farmers. **ANUJ MITTAL** | Iowa State University

48 Increasing the Use of Farm Fresh Food in Institutional Settings by Educating Chefs, Youth, and Local Farmers Through Demonstrations, Workshops, and Visual References. **ANN SWANSON** | Hendrick House Farm | Urbana IL

Each day there will be a different set of posters shown for a full day, and the authors will be present from 2:30 PM – 4:00 PM on the day they're presenting.

49 Enhancing Cooperative Extension Capacity to Support The Advancement of Adding Value and Direct Marketing by Farmers in the Northeast. **WINIFRED MCGEE** | Pennsylvania State University

50 On-Farm Direct Marketing SWOT Analysis Training. **MICHELLE INFANTE-CASELLA** | Rutgers University

51 Building Capacity through Collaboration and Eliminating Urban Food Deserts. **CARY JUNIOR** | SE Michigan Producers Assoc | Detroit MI

52 Examining, Optimizing, and Building Capacity for Montana's Local Beef to School Supply Chain. **THOMAS BASS** | Montana State University

53 Northcoast Lamb Co-Op. **LAURA DEYOUNG MINNIG** | The Spicy Lamb Farm | Peninsula OH

54 Development of Extension Programming to Support the Advancement of Agritourism in the Northeast. **MICHELLE INFANTE-CASELLA** | Rutgers University

55 Scaling Food Waste Composting in Milwaukee. **GREG LAWLESS** | University of Wisconsin

56 Indy Urban Mushrooms: Growing revenue through collaborative exploration of mushroom production. **JULIA ANGSTMANN** | CUE Farm | Indianapolis IN

57 Missouri Agroforestry Summer Institutes: High School Educator Training for Curriculum Delivery. **HANNAH HEMMELGARN** | University of Missouri

58 Breed types and cover crops provide alternatives for sustainable year-round supply of forage-fed beef for small farms in the Gulf Coast region: Research and on-farm demonstrations. **GUILLERMO SCAGLIA** | Louisiana State University

59 Cultivating the Wine Cap Mushroom while building soil health and suppressing plant disease – an innovative and economical approach to two common agricultural problems. **LINDSEY BENDER** | Field and Forest Products | Peshtigo WI

60 Expanding sustainable shellfish aquaculture: Optimizing growth and survival in a bay scallop nursery system. **DANIEL WARD** | Ward Aquafarms | North Falmount MA

61 The Northeast Cover Crops Council: Building the Network and Online Decision Support Tools. **STEVEN MIRSKY** | USDA-ARS | Beltsville MD

62 2016 Northeast SARE Regional Cover Crops Training. **JASON CHALLANDES** | Delaware State University

63 Midwest Cover Crops Council - Cover Crop Decision Tool. **ANNA MORROW** | Purdue University

64 Deep Soil Nitrogen: A Resource for Sustainability in the Mid-Atlantic Using Early Covercrops. **RAY WEIL** | University of Maryland

65 Integrated oyster and littleneck clam aquaculture to increase seafarm yield. **JORDAN KRAMER** | Winnegance Oyster-Farm | West Bath ME

66 Developing a Self Funded Aquaculture Program for High Schools. **WILLIAM WEST** | Blue Iris Fish Farm | Black Creek WI

67 Breaking Barriers: Building Capacity to Provide Tractor Education. **BETH HOLTZMAN** | University of Vermont

68 Lasting Impacts of a 2012 SARE Beginning Farmer Professional Development Project in Maine. **ELLEN MALLORY** | University of Maine

69 Poster Withdrawn

70 On-Farm and Ranch Education of New and Beginning Latino Producers in Missouri. **ELEAZAR UBALDO GONZALEz** | University of Missouri

71 Model State Program: The Third Thursday Thing. **MARION SIMON** | Kentucky State University

72 Four Brain-based Best Practices to Improve Facilitation of Adult Learning in Extension Education. **SETH WILNER** | University of New Hampshire

Wednesday Poster Session – Park View room 4th Floor

Each day there will be a different set of posters shown for a full day, and the authors will be present from 2:30 PM – 4:00 PM on the day they're presenting.

NO. WEDNESDAY APRIL 4 | 10 – 10:30 AM; 2:30 – 4:00 PM

1 Facilitating grazing partnerships on Wisconsin's public grasslands: Assessing plant communities and developing best practices. **GRETA LANDIS** | University of Wisconsin

2 Grazing management of "Kernza" Intermediate wheatgrass as a dual purpose crop. **JEREMIE FAVRE** | University of Wisconsin

3 Evaluating the feasibility, effectiveness, and challenges of sprouted grains on grazing dairy farms. **KATHY SODER** | USDA-ARS | University Park PA

4 Sustainability Training in Agricultural Resources Systems (STARS): A Train-the-Trainer Model for Agriculture and Natural Resources Professionals. **LESLIE BURGER** | Mississippi State University

5 Westside Pasture Calendar for Agricultural Professionals in the Pacific Northwest. **SUSAN KERR** | Washington State University

6 Pasture-based Dairy Impact on Nitrogen and Phosphorus Cycling in Response to Grazing Grass-Legume Mixtures over Monocultures. **JENNIFER LONG** | Utah State University

7 Transitioning farms and ranches from one family to another: Improving farm transitions with better programs and services. **JULIA VALLIANT** | Indiana University

8 Tall Fescue Pasture Seed Head Control Methods. **RUSTY LEE** | University of Missouri

9 The Economic Analysis of Cover Crops, Soil Health, the role of Livestock and Impact on Moisture. **MIKE MCDONALD** | Indigo Ridge Farm | Palmyra NE

10 Professional Development Project in Weed and Forage Identification and Management. **SID BOSWORTH** | University of Vermont

11 Sheep Parasite Control in Silvopasture Systems. **EVANGELINE AND JULIANNA PENT** | Virginia Tech University

12 Sustainable year-round sheep milking management. **NIKOLA KOCHENDOERFER** | Cornell University

13 Quantifying and demonstrating scrubbing H2S from farm-based anaerobic digestion systems. **ABHINAV CHOUDHURY** | University of Maryland

14 Insect larvae production on dairy cow manure: a potential windfall for dairy farmers and sustainable aquaculture. **NATHANIEL SIBINGA** | Cornell University

15 Sustainable Livestock Mortality Management. **MARK HUTCHINSON** | University of Maine

16 Early (in-ovo) administration of probiotics to promote growth in broiler chicken. **MUHAMMED SHAFEEKH MUYYARIKKANDY** | University of Connecticut

17 Pastured Rabbit for Profit. **NICHKI CARANGELO** | Letterbox Farm | Hudson NY

18 Advancing sustainable cropping systems for dairy in the Northeast. **HEATHER KARSTEN** | Pennsylvania State University

19 Integrating no-till and forage radish cover crops for sustainable early sweet corn production. **JULIE FINE** | University of Massachusetts

20 Incorporating Cereal Rye Into a No-Till Corn/Soybean Rotation For Erosion Reduction and Possible Grazing Use. **CHARLES ELLIS** | University of Missouri

21 Cover Crop Influence on Stored Soil Water Availability to Subsequent Crops. **SRUTHI NARAYANAN** | Clemson University

22 Replacing Summer Fallow with Grain-type Field Peas in Semiarid Cropping Systems: Sustainability and Agronomic Evaluation. **STRAHINJA STEPANOVIC** | University of Nebraska

23 Developing Sustainable Roller Crimped Cover Cropping Systems for Corn and Soybean Production: Effects on Cover Crop Winter Hardiness, Biomass, N Mobilization, Weed Suppression and Yields. **BILLY SAMMONS** | Sammons Custom Farming | Churdan IA

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24 Use of Irrigation on Pasture-Based Dairies to Determine Forage and Irrigation Type Efficiencies.
STACEY HAMILTON | University of Missouri

25 Deep Soil Profile Sampling of Nitrate for Residual Nitrogen Credit in Winter Wheat Texas Blacklands.
DENNIS COKER | Texas A&M University

26 Understanding irrigation technologies and grower decision-making in the Wisconsin Central Sands.
ELIZABETH MCNAMEE | University of Wisconsin

27 Improving Seedless Cucumber Production to Diversity High Tunnel Crops in the North Central Region.
WENJING GUAL | Purdue University

28 Strengthening Organic Sweetpotato Propagation Systems in the North Central Region.
ZACHARY HOPPENSTEDT | Kansas State University

29 Cover Crop Cold Tolerance for High Tunnels. **CHARLOTTE THURSTON** | University of Minnesota

30 Integrating row covers into sustainable production systems to strengthen the sustainability of specialty crops farmers.
RAMON ARANCIBIA | Virginia Tech University

31 Effect of Cover and Green Manure Crops on Soil Health, Plant Health and Tuber Yield in Organic Sweet Potato Production.
WAANA KALUWASHA | University of Missouri

32 Nitrogen contribution from cover crops for vegetable crop uptake. **KATIE CAMPBELL-NELSON** | University of Massachusetts

33 Increasing adoption of reduced tillage strategies on organic vegetable farms in the maritime Northwest.
DOUGLAS COLLINS | Washington State University

34 Cover crops and strip tillage to promote soil quality, environmental sustainability, food safety, and profitability in cucurbit cropping systems. **AJAY NAIR** | Iowa State University

35 Increasing Profitability of Tomato Production in High Tunnels. **WILLIE LANTZ** | University of Maryland

36 Optimizing between-row management strategies in plasticulture vegetables for improved crop production and soil health.
ALYSSA TARRANT | Michigan State University

37 Optimizing nutritional management in fruit tree production in Southern U.S. **QI ZHOU** | Clemson University

38 Innovative Waste Management Strategies by Utilizing Locally Produced Organic Amendments for Nutrient Management and Crop Production in Hawaii. **AMJAD AHMAD** | University of Hawaii

39 Methods for Improving Quality and Conditions of Ground Cherry Production. **LISA GARFIELD** | Calliope Farm | Salisbury MD

40 Direct Marketing Non-Traditional Perennial Berry Varieties: Expanding Eater Preferences and Grower Connections.
ERIN SCHNEIDER | Hilltop Community Farm | La Valle WI

41 Growing Organic Blueberries Using Biochar. **RICK MARESKE** | Johnson County Community College | Kansas City KS

42 Effects of Subsurface Micro-irrigation on Water Use Efficiency and Grapevine Growth. **XIAOCHI MA** | Washington State University

43 Integrating Pest & Pollinator Management in Southern Berry Production. **JEREMY SLONE** | North Carolina State University

44 Linking adaptive management to climate change impacts on diversified vegetable and berry farms in northern New England.
ALISSA WHITE | University of Vermont

45 Food storage curriculum for farmers and processors. **CHRIS CALLAHAN** | University of Vermont

46 Luring Generalist Predators from Field Borders to Control Crop Pests. **ADAM INGRAO** | Michigan State University

47 Improved trapping strategies for managing harlequin bug: applying recent research and discovery of its aggregation pheromone as a tool for vegetable growers. **ANTHONY STEPHEN DIMEGLIO** | Virginia Tech University

48 Promoting sustainable biological control of the soybean aphid: the effect of plant diversity, management practices, and overwintering on Aphelinus parasitoids in North America. **JONATHAN DREGNI** | University of Minnesota

Each day there will be a different set of posters shown for a full day, and the authors will be present from 2:30 PM – 4:00 PM on the day they're presenting.

49 Management of soilborne diseases in small farms with eco-friendly treatment options. **MAHFUZ RAHMAN** | West Virginia University

50 Development of Disease Management, Fertility, and Weed Control Best Practices for Northeast Garlic Production. **CRYSTAL STEWART** | Cornell University

51 Sustainable Management Strategies for Management of Key Insect and Nematode Pests in Squash Cropping Systems. **LORENA LOPEZ** | University of Florida

52 Diagnosis and Management of a New Disease of Cucurbits in Oregon. **HANNAH RIVEDAL** | Oregon State University

53 Sustainable Management of Soil-borne Diseases in Nursery Production. **PRABHA LIYANAPATHIRANAGE** | Tennessee State University

54 Assessing microbial communities of aqueous compost extracts and their effects on mulch and crop residue degradation. **BEN SAMUELSON** | University of Nebraska

55 From the Classroom to the Field: Advanced Soil Health Training for Illinois Ag Service Providers. **JENNIFER FILIPIAK** | American Farmland Trust | DeKalb IL

56 Networking for Soil Health. **THERESA KEAVENY** | Sustainable Farming Association of Minnesota

57 Priming for production: A podcast on soil health. **NATALIE LOUNSBURY** | University of New Hampshire

58 Building Soil Health in Maryland Through Agricultural Service Provider Education. **NEVIN DAWSON** | University of Maryland

59 Living Soil for a Sustainable Future: Assessing the Effects of Cover Crops and Tillage on the Soil Microbial Community and Health. **SAMANTHA TAGGART** | Virginia Tech University

60 Understanding the Influence of Soil Microbial Diversity on the Synchronization of Cover Crop Residue Nitrogen Mineralization at Critical Growth Stages of Corn and Soybean Cash Crops. **CLAYTON NEVINS** | Purdue University

61 The Effect of Best Management Practices on Soil Health in Wisconsin: A Comparison of Soil Biological Measurements Using Long-Term Trials. **GREG RICHARDSON** | University of Wisconsin

62 Soil Health of a Warm-Season Perennial Pasture Over-seeded with Cool-Season Annuals. **KATHLEEN BRIDGES** | Louisiana State University

63 Incorporating Soil Ecological Knowledge into Management of CRP Lands. **HANNAH BIRGE** | University of Nebraska

64 Developing a Soil Test Kit for Extension Programming. **CAITLIN YOUNGQUIST** | University of Wyoming

65 Farm-to-Childcare in North Carolina; A Holistic Case Study. **JACOB RUTZ** | North Carolina State University

66 Dining at the Farmer's Table. **JOHNELLA HOLMS** | Nicodemus Education Camps | Nicodemus KS

67 Social Sustainability on the Farm. **DEBRA HELEBA** | University of Vermont

68 Reweaving the Economic Fabric to Support Sustainable Farms and Ag-based Businesses. **JAN JOANNIDES** | Renewing the Countryside | Minneapolis MN

69 Farm Financing: Measuring Profitability and Success. **DOROTHY SUPUT** | The Carrot Project | Boston MA

70 Why Do They Quit?: Identifying Key Determinants of Beginning Farmers' Decisions. **ANDREA RISSING** | Emory University

71 Soil solarization as a tool to control weeds and soilborne pathogens in tree seedling nurseries in the Pacific Northwest. **BRIAN HIL**l | Oregon State University

72 Saving Water and Improving Soil Health Through LESA, Cover Crops, No-Till, and Management Intensive Grazing. **LAURA GOLDEN** | University of Idaho

Farm Tours

On Thursday, April 5, Our Farms, Our Future conference attendees have the option to attend one of eight different tours to farms and businesses in the St. Louis area that utilize sustainable practices. We are grateful to the farm tour leaders that have volunteered to guide these tours: Guy Ames, Andrew Coggins, Charles Ellis, Lindsey Hethcote, Debi Kelly, Rusty Lee, Bill McKelvey, Rob Myers, David Redhage and Sami Tellatin. And we also would like to express gratitude to the farms and businesses that agreed to host farm tours this week, and to congratulate them for the sustainability initiatives they're committed to implementing on a daily basis. Thank you!

All tour attendees **must arrive** at the West Entrance of the hotel 15 minutes before each scheduled departure. Buses will depart promptly at the time listed below.

AGRITOURISM AT A SEVENTH-GENERATION ORCHARD: A TOUR OF ECKERT'S

9:00 AM – 1:00 PM (plan to board your bus at 8:45 AM)
Tour Lead: Andrew Coggins, NCAT/ATTRA

Description: Ask a handful of St. Louis families about special things to do in the fall and you'll hear about picking apples at Eckert's. For seven generations, the Eckert's family has owned and operated Illinois orchards near the St. Louis metropolitan area. During this tour, you'll learn about this rich history and see how Eckert's has evolved over time. Lunch will be provided.

Tour Stops:
• Eckert's: http://www.eckerts.com/

ALL ABOUT LIVESTOCK: RAISING ANIMALS PROFITABLY AND SUSTAINABLY

8:30 AM – 4:30 PM (plan to board your bus at 8:15 AM)
Tour Lead: David Redhage, Kerr Center for Sustainable Agriculture

Description: From pastured livestock production systems to an innovative food hub, the stops on this tour will engage anyone seeking to learn more about locally raised livestock. Tour stops will include Benne's Best Meat, Todd Geisert Farms, Farm to You Market and Fresh Pasture Farms. Lunch will be provided.

Tour Stops:
• Benne's Best Meat: http://bennesbest.com/
• Todd Geisert Farms: http://www.toddgeisertfarms.com/
• Farm to You Market: https://farmtoyoumarket.com/
• Fresh Pasture Farms: http://freshpasturefarms.com/

THE GATEWAY TOUR: URBAN AGRICULTURE IN DOWNTOWN ST. LOUIS

8:30 AM – 1:00 PM (plan to board your bus at 8:15 AM)
Tour Lead: Bill McKelvey, University of Missouri

Description: St. Louis is known for the Arch, the Cardinals and Anheuser Busch, but within just a few miles of these major attractions are four bright urban farming organizations. On this tour, see how these local organizations are making a big impact. Tour stops will include Urban Buds, Gateway Greening, the International Institute and Urban Harvest's Food Roof Farm. Lunch will not be provided.

Tour Stops:
• Urban Buds: http://www.citygrownflowers.com/
• Gateway Greening: http://www.gatewaygreening.org/
• International Institute: https://www.iistl.org/globalfarm.html
• Urban Harvest's Food Roof Farm: http://www.urbanharveststl.org/food-roof-farm/

FARM TO INSTITUTION TOUR: SOURCING AND GROWING LOCAL FOODS IN ST. LOUIS SCHOOLS

8:00 AM – 12:00 PM (plan to board your bus at 7:45 AM)
Tour Lead: Lindsey Hethcote, University of Missouri-Extension

Description: It's critical that children learn about where their food comes from and how to prepare it. On this tour, you will visit the Maplewood Richmond Heights school gardens, where elementary and middle school students learn about how food is grown and gain a sense of appreciation for the natural environment. A panel discussion with St. Louis leaders in local food sourcing will follow the tour. Lunch will not be provided.

Tour Stops:
• Maplewood Richmond Heights: http://www.mrhschools.net/about-us/welcome-to-mrh

FARMS, RANCHES AND COMMUNITIES TOUR

8:15 AM – 4:00 PM (plan to board your bus at 8:00 AM)
Tour Lead: Debi Kelly, University of Missouri-Extension

Description: The oft-quoted saying that "it takes a village" to accomplish something worthwhile is definitely true in sustainable agriculture. On this tour, you will see how farmers, ranchers and restaurateurs contribute to the collective picture of sustainable agriculture in Southern St. Louis. Tour stops include Henry Family Farms, Franciscan Farm, LaChance Vineyard and Bellews Creek. Lunch will be provided.

Tour Stops:
- Henry Family Farms: https://henryfamilyfarms.com/about/
- Franciscan Farm: https://franciscansisters-olph.org/franciscan-earth/franciscan-farm.html
- LaChance Vineyards: http://lachancevineyards.com/
- Bellew's Creek: https://www.localharvest.org/bellews-creek-farm-M228

FROM PASTURE TO YOU: A TOUR OF ILLINOIS DAIRY FARMS

8:15 AM – 12:30 PM (plan to board your bus at 8:00 AM)
Tour Lead: Rob Myers, University of Missouri and North Central SARE

Description: Have you ever wondered where your favorite dairy products come from? This tour is your opportunity to meet some amazing dairy producers and the animals they raise. On this tour, you can enjoy some cheese samples as you learn more about cheese, milk and yogurt production. Tour stops include Marcoot Jersey Creamery and Rolling Lawns Farm. Lunch will not be provided.

Tour Stops:
- Marcoot Jersey Creamery: http://marcootjerseycreamery.com/
- Rolling Lawns Farm: http://rollinglawnsfarm.com/

THE NEXT GENERATION OF ST. LOUIS FARMERS

8:30 AM – 4:30 PM (plan to board your bus at 8:15 AM)
Tour Leads: Guy Ames, NCAT/ATTRA and Sami Tellatin, University of Missouri-Extension and North Central SARE

Description: Be prepared to be inspired. This tour features three St. Louis producers who are locally creating tomorrow's sustainable agriculture landscape. Tour stops include Straw Hat Aquaponics, EarthDance Organic Farm School and Three Rivers Community Farm. Lunch will be provided.

Tour Stops:
- Straw Hat Aquaponics: http://www.strawhataquaponics.com/#
- EarthDance Organic Farm School: http://earthdancefarms.org/
- Three Rivers Community Farm: http://www.threeriverscommunityfarm.com/

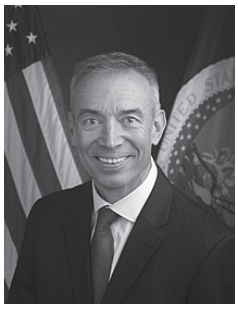
SOIL HEALTH STEWARDS TOUR

8:00 AM – 4:00 PM (plan to board your bus at 7:45 AM)
Tour Leads: Charles Ellis, University of Missouri-Extension and Rusty Lee, University of Missouri-Extension and Lee Farms

Description: It's one thing to read about the soil health craze that's captured the nation, and quite another to visit the farms and research institutions where soil health practices are being put into action. This tour is for anyone wanting to witness soil health practices in action and meet the farmers and researchers who steward the soil every day. Tour stops will include Harry Cope's Farm and the NRCS Plant Materials Center. Lunch will be provided.

Tour Stops:
- Harry Cope Farm
- NRCS Plant Materials Center in Elsberry, MO

Keynote Speakers



STEVE CENSKY is the Deputy Secretary for the U.S. Department of Agriculture. He was sworn-in on October 11, 2017 after being unanimously confirmed by the Senate. Mr. Censky previously served for the past 21 years as CEO of the American Soybean Association, a national, not-for-profit trade association that represents United States soybean farmers on policy and trade. Mr. Censky began his career working as a legislative assistant for Senator Jim Abdnor (R-SD). Later he served in both the Reagan and George H. W. Bush Administrations at the U.S. Department of Agriculture, eventually serving as Administrator of the Foreign Agricultural Service where he was involved in running our nation's export programs. Mr. Censky received his B.S. in Agriculture from South Dakota State University and his Postgraduate Diploma in Agriculture Science from the University of Melbourne, Australia. He grew up on a soybean, corn, and diversified livestock farm near Jackson, Minnesota. He and his wife Carmen have two daughters in college.

KRYSTA HARDEN is the Vice President of External Affairs and the Chief Sustainability Officer of Corteva AgriscienceTM, Agriculture Division of DowDuPont™. Prior to her role at DowDuPont, Ms. Harden was DuPont Vice President of Public Policy and Chief Sustainability Officer, joining DuPont in February 2016. Before joining DuPont, Ms. Harden served as deputy secretary of the U.S. Department of Agriculture (USDA), where she helped to shape food and agriculture policy, including leading implementation of the 2014 Farm Bill. At USDA and throughout her career in agriculture, Ms. Harden has focused on growing the ranks of agriculture and expanding opportunity for women, young people, immigrants, socially disadvantaged producers, returning veterans and retirees. Prior to her service as deputy secretary, she held USDA leadership positions as chief of staff to the Secretary of Agriculture Tom Vilsack, and assistant secretary for Congressional Relations. Preceding her service at USDA, Ms. Harden spent five years as CEO of the National Association of Conservation Districts (NACD), providing national leadership for natural resource conservation and representing thousands of conservation districts across the nation. In addition to serving as CEO of the National Association of Conservation Districts, she has also worked with the American Soybean Association as senior vice president of Gordley Associates, where she concentrated on conservation and renewable energy issues. She also served 12 years on Capitol Hill, as staff director for the House subcommittee on Peanuts and Tobacco, and as chief of staff and press secretary for former Congressman Charles Hatcher. Ms. Harden received her B.A. in journalism from the University of Georgia.

Plenary Session Speakers

GUY K. AMES has a bachelor's degree in history from Texas A&M and a masters in horticulture (fruit crops and pest control in fruit crops) from University of Arkansas. Guy has over 40 years of successes and failures trying to grow fruit organically in the South. He has operated Ames Orchard & Nursery (amesorchardandnursery.com), producing both fruit and fruit plants adapted to Ozark conditions, for 25 years. In addition to the orchard and nursery, Guy is currently a Horticulture Specialist with ATTRA, the national sustainable agriculture information service managed by the National Center for Appropriate Technology. He is the author of a series of publications on organic fruit production published by ATTRA, including *Community Orchards; Climate Change and Perennial Fruit and Nuts; Pawpaws: Tropical Fruit for Temperate Zones; Fruit Trees, Bushes, and Vines for Natural Growing in the Ozarks ,* and many more (go to www.ncat.attra.org/horticultural for a full list).

KEITH BERNS combines over 20 years of no-till farming with 10 years of teaching Agriculture and Computers. Together with his brother, Brian, Keith co-owns and operates Providence Farms, a 2000 acre diversified family farming operation in Bladen, Nebraska and Green Cover Seed, one of the nation's leading providers of cover crop information and seed. Green Cover Seed has grown from supplying seed and information for 1,000 acres of cover crops in 2009 to over 750,000 acres in 2017. Through Green Cover Seed, Keith has experimented with over 100 different cover crop types and hundreds of mixes planted into various situations and has learned a great deal about cover crop growth, nitrogen fixation, moisture usage, and grazing utilization of cover crops. Keith also developed the SmartMix Calculator™ one of the most widely used cover crop selection tools on the internet. Keith has a Masters Degree in Agricultural Education from the University of Nebraska and teaches on cover crops and soil health more than 20 times per year to various groups and audiences.

REX DUFOUR has been with NCAT since 1994, and opened the CA NCAT office in 2001. His work focus is writing about, and training agriculture professionals on organic practices and certification, ecological pest-, and soil management, and farmscaping. Rex is registered with NRCS as an Organic TSP (Technical Service Provider) in CA and NV. He is responsible for developing NCAT/ATTRA's Ecological Pest Management Database. Rex worked 9 years in Thailand and Laos with the Peace Corps, the UN, and the US State Department. He helped developed IPM plans for potatoes and small grains on USFWS land leased to farmers in Tule Lake, CA. He is a former Pest Control Advisor (PCA) in CA, and has been trained as a Certified Organic Crop Inspector by the International Organic Inspectors Association (IOIA). Rex received his MSc. in IPM from UC Riverside (1981) and B.A. Biology from The Colorado College (1976).

FAITH GILBERT is a farmer, farm business educator, and community organizer in New York's Hudson Valley. She is a partner in Letterbox Farm Collective, a diversified commercial market farm now entering its 6th season. Faith is the vegetable manager and administrative lead for Letterbox, and worked with her partners through major planning and development projects including land acquisition in 2014 and successive growth leaps resulting in 1900% expansion in five years. Faith is the author of Cooperative Farming, a SARE-funded guidebook on forming and sustaining collaborative businesses in the food system. Outside the workday, she engages in community organizing projects around issues of food and economy.

ROB HEDBERG: In January 2014 Rob Hedberg was appointed to serve as the National Program Leader for Minor Use Pesticides in addition to his existing role as National Director for the Sustainable Agriculture Research and Education Program, a position he has held since January 2009. Both of these positions rely on active engagement with national and regional partnerships to guide highly relevant science targeted to solving growers' needs and concerns.

Mr. Hedberg has worked at USDA since 2005, first as the Science Policy and Legislative Affairs Advisor for CSREES. He subsequently served as Acting Director of Legislative and Inter-governmental Affairs for the USDA Research, Education and Economics (REE) Mission area from 2007-2008 during negotiation and implementation of the 2008 farm bill.

Prior to joining USDA Hedberg acquired significant agricultural science policy experience from work on the staff of the U.S. Senate Agriculture Committee as an American Association for the Advancement of Science (AAAS) Fellow and as Director of Science Policy for the National and Regional Weed Science Societies.

Hedberg gained practical field experience in both the public and private sectors as a regional agronomy agent for the University of Vermont Extension service, as the owner of a crop consulting and research business, as Manager of Crop Protection Research and as Director of Agronomic Business for Agway, a major farm cooperative serving the Northeastern U.S.

Hedberg grew up on a small farm in Michigan. He received a Bachelor's degree in Crop and Soil Science from Michigan State University, a Master's degree in Plant Science from the University of New Hampshire and a Certificate of Graduate Studies in Management and Administration from Harvard University.

CHARLIE JACKSON is the executive director and a founder of ASAP (Appalachian Sustainable Agriculture Project), a nonprofit organization in the Southern Appalachians with a mission to help local farms thrive, link farmers to market and supporters, and build healthy communities through connections to local food. His experience includes training farmers in marketing and farm profitability, developing and implementing local food campaigns, and creating local food systems that are socially just, health promoting, sustainable, and that build local economies. He is the author of numerous food assessments, feasibility studies, and scholarly articles and a researcher on local food system development with ASAP's Local Food Research Center. He was inducted into the Western North Carolina Agricultural Hall of Fame in 2017.

ANNA JONES-CRABTREE owns and operates Vilicus Farms with her husband, Doug. Vilicus Farms is a first generation, organic, dryland crop farm in Northern Hill County, Montana. They grow a diverse array of organic heirloom and specialty grain, pulse, oilseed and broadleaf crops under a seven-year rotation. In only eight seasons, Vilicus Farms grew from a 1,280-acre farm to a 5,000 acre nationally recognized farming operation by using USDA's beginning farmer programs, employing extensive conservation practices, and fostering unique risk sharing relationships with food companies and land investment firms. Anna launched Vilicus Training Institute (VTI) in 2015. A Vilicus Farms apprenticeship is a multi-season training and mentoring program that immerses highly motivated young professionals in organic farm operation and management – with an ultimate goal of supporting new and successful farm owners and operators. Anna is a Donella Meadows Leadership Fellow and a recipient of the White House Greening Government Sustainability Hero Award. She holds a Ph.D. in Civil and Environmental Engineering with a minor in Sustainable Systems from Georgia Institute of Technology. Anna served on the USDA Secretary's Advisory Council on Beginning Farmers & Ranchers. She held the Farmer Representative seat on the Board of Timeless Natural Food, a supplier of gourmet organic lentils and specialty heirloom grains. Most importantly, Anna, Doug, and their three Jack Russell Terriers, are avid members of the Lentil Underground (http://lentilunderground.com/)

KIM KROLL was appointed as the associate national director of the USDA Sustainable Agriculture Research and Education (SARE) program in April 1996. Before his appointment as associate director, Kroll spent nine years at the Rodale Institute Research Center as a cropping systems agronomist. His research focused on investigating plant and soil responses to changes in resource management. He was an assistant professor in the Soils and Crops Department at Rutgers University and a post-doctoral fellow at Cornell University after receiving his PhD from Purdue University.

STEFANI MILLIE GRANT is Senior Manager, External Affairs & Sustainability for Unilever, a food and personal care products manufacturing company. In her role, she works with brands; procurement; suppliers; and farmers to implement Unilever's Sustainable Agriculture Code and deliver Unilever's sustainable sourcing goal in the U.S. and Canada. Ms. Grant also works together with elected officials and NGO's on Unilever's sustainability efforts. Prior to working for Unilever, Ms. Grant was a Vice President with Stateside Associates, a consulting firm in Arlington, Virginia, where she worked on agricultural and conservation issues for a major equipment manufacturer and also the Department of Defense. An Iowa native, Ms. Grant holds a Master of Business Administration degree from the University of Iowa and a Bachelor of Arts degree in Accounting and Public Administration from Buena Vista University.

DR. ROB MYERS is Regional Director of Extension Programs for the North Central Region Sustainable Agriculture Research and Education (SARE) program. He administers competitive grants and state funding for sustainable agriculture projects in 12 North Central states. He also holds an appointment as an adjunct faculty member in the Plant Sciences Division at University of Missouri where he is based. His professional expertise encompasses sustainable agriculture, cropping system diversification, cover crops, and soil health. From 2013-14, he held a one-year term as an Endowed Chair in Agriculture Systems with the University of Minnesota Institute for Sustainable Agriculture. In the mid-1990s he served as National Program Leader for Sustainable Agriculture at USDA-CREES, including serving as National Director of the SARE program at that time. His Ph.D. in agronomy is from University of Minnesota, and he grew up on a family farm in central Illinois.

BETH ROBERTSON-MARTIN leads the organic and non-GMO sourcing group at General Mills with a particular focus on developing deep industry relationships to create new alliances and break down barriers. She has extensive experience building strong relationships with suppliers, manufacturers and farmers. Her commitment to creating a more sustainable food system stems from her early years of growing up in a farming family in Southeastern Missouri. Prior to joining GMI in 2012, Beth led sustainable sourcing groups in the furniture and apparel industry. Before moving into procurement, Beth developed risk management strategies and portfolio management techniques in the financial industry. Beth has a Bachelor of Science in Econometrics and a Master of Science in Economics from Washington University in St. Louis.

ERROL SCHWEIZER led the merchandising and purchasing for the largest department at Whole Foods for over 7 years, doubling department sales to over $5 Billion annually. Errol has over 20 year's retail experience, a strong operations background and was an architect of WFM's 2018 GMO Labeling Policy. Supermarket News has selected Errol as one of their Top 25 Retail Game Changers. With hundreds of suppliers across over 80 categories, his team at Whole Foods launched thousands of innovative new products into household names and helped establish Non GMO, Halal, Kosher, and Fair Trade as major food trends. Brands such as Siggi's, Justin's, Suja, Califia, Vital Farms and many more, launched to market through Errol's Grocery team. He also helped develop product standards for cleaning products, grass-fed dairy, pastured eggs, sustainable tuna and more. Currently, he is Strategic Advisor and Board Member for a number of companies and NGOs in the Natural and Organic Products industry, including Xerces Society, Non GMO Project, Demeter USA, Fairway Markets and Good Eggs.

WAYNE SWANSON: Swanson Family Farm, LLC was established in March of 2008 because Wayne Swanson dreamed of owning a small farm to raise food for his family and friends. Wayne grew up in Woodbury, NJ. He also lived a few miles from his grandparents' - Claude and Artie's - 10 acre farm. Everything Swanson Family Farm is and will be is a direct result of the seed planted by Wayne's parents and grandparents.Swanson Family Farm is a 32-acre farm run by the Swansons: Wayne, Charmaine (his wife) and Jekhi (his son). The farm specializes in grass fed and pasture raised beef, lamb, goat and pork. The Swansons feature GA Pineywoods Cattle, hair sheep and heritage breeds of goats and hogs. Their aim is to provide the highest quality products raised the way God intended - on a pasture or in the woods. They do not feed commercial food or use steroids or hormones on their animals. Swanson Family Farm products can be purchased on the farm, at the local farmer's market, via private chefs or at one of their partner restaurants.

Breakout Session Speakers

JOHN ARBUCKLE grew up farming with his father and grandfather in Central Illinois where they raised corn, soy beans, beef cows and pigs. Since moving to Missouri, he and his wife Holly have started a national brand which focuses on selling Pasture Raised, non-GMO pork from coast to coast. Roam Sticks, LLC is the first and only national source of Pasture Raised, non-GMO pork snack sticks. In the summer of 2017, the Arbuckles conducted research studying the ability of pasture raised pigs to consume large quantities of green forage. The Arbuckle family divides its time between farming, administration of the business, and advocacy for pasture based family farmers.

VERONICA BAETJE and her husband, Steve, have been making prize-winning French-style cheeses right here in Missouri, only 45 minutes from St. Louis. They began the learning process in 1999, opened their licensed dairy in 2007, and quickly made a name for their business with their attention to quality and skill with animal care and cheesemaking. The cheeses have won national and international competitions, and Veronica has had the honor of judging at the World Cheese Awards. Currently milking 60 Saanens and purchasing milk from other farms in order to meet the demand, Veronica has experience selling at Farmer's Markets, an on-farm store, and working with distributors and Whole Foods. Veronica understands and is skilled at all the aspects of milking a dairy animal, making wonderful products, and selling them, and can speak to the challenges and joys of such a business.

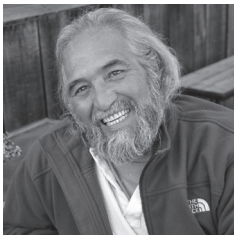
DEVONA BELL is a thought leader in sustainable, regenerative, and equitable food systems in the USA and globally. Devona has 20+ years of professional experience in project design and management with a focus on sustainable, regenerative agriculture, building local and regional food systems, natural resource management, water resource management, ecosystem restoration, enterprise development, and rural economic development. As the Deputy Director of NCAT, Devona uses a highly collaborative approach to focus on building equitable local sustainable agricultural models; works to increase efficiencies along entire value chains from crop production through processing and marketing to quickly improve the productivity and profit margins of small to mid-scale farmers to increase competitiveness, service linkages, and market access. With the Wallace Center, for the WK Kellogg Foundation, Devona developed technical assistance and training programs for farmers, cooperatives, food hubs, and organizations that focus on food and agriculture enterprise development, food safety, social enterprise, and good food value chains. Devona holds a Master's Degree in Natural Resource Policy and Administration with an emphasis on multidisciplinary, collaborative and innovative approaches to building sustainable food systems and is passionate about the food/agriculture/health nexus. Devona lives in Butte Montana with her two daughters.

AUDREY BERNS was born and raised in Nebraska, graduating from Harvard....Nebraska, that is, in 1984. She attended UNL and graduated with her Bachelor of Science and English teaching degree. Having married a very talented teacher and future soil health rock star, she has spent her adult life supporting Keith by taking care of the home and teaching their seven children. Upon their move to the farm in 1998 she fully supported the no-till methods Keith and his brother, Brian, were using and during the 2002 drought saw first hand how the methods of no-till made a notable difference. As Green Cover Seed developed and the farm embraced cover cropping Audrey's support only grew, and any chance her schedule allows, she attends conferences with Keith and continues to learn about soil health. When not traveling with Keith, she enjoys home schooling their three youngest children, being with their 6 grandchildren, caring for her mother, cooking up a storm and being involved in church ministries.

DR. MARISOL BERTI is professor in the Department of Plant Sciences at North Dakota State University. Her research is in forages, cover crops, and bioenergy crops production. She joined the Department of Plant Sciences as an associate professor in July 2009 and was promoted to professor with tenure in 2016. She is the director of a USDA-NIFA CAP grant 'CropSys-CAP- A novel management approach to increase productivity, resilience, and long-term sustainability of cropping systems in the northern Great Plains' approved in 2016 for 3.7 million dollars. She works with cover crop production for grazing, interseeding cover crops in corn and soybean along with including perennial phases in crop rotations. Selecting cover crops based on function has led to recommendations specifically for grazing based on above-ground biomass production and forage quality, and also for building soil health with the focus being on root structures and residue. Helping farmers and training other educators on effectively using cover crops is important for seeing adoption of concepts from her research. From large meetings to one-on-one interactions, she provides valuable science-based information that can be adopted to meet on-farm goals. Marisol has a B.S. degree in Agronomy from the Pontificia Universidad Catolica, Chile, and a M.S. and Ph.D. degree in Plant Sciences from NDSU. She worked for 10 years in Chile as a professor of Agronomy in the University of Concepcion, Chillan, Chile.

MARIA BOWMAN is a Research Agricultural Economist in the Conservation and Environment Branch of the USDA's Economic Research Service. Her current work focuses on the sustainability of existing and emerging agricultural systems, how U.S. conservation programs impact sustainability via farmer decision-making and environmental outcomes such as soil health and soil erosion, the economics of antibiotic use in livestock production, and the welfare impacts of process-based labeling and the National Organic Program. She has also researched the economic drivers of land-use and land-cover change in Brazil and Mozambique. Maria received a Ph.D. in Agricultural and Resource Economics from the University of California, Berkeley, an M.S. in Forestry from Virginia Tech, and a B.S. in Environmental Science from Juniata College. Prior to joining ERS, Maria was a Fellow in the Food and Agriculture Program of the Natural Resources Defense Council, and from 2006-08, Maria worked in the Brazil and Africa programs of the Woods Hole Research Center in Falmouth, MA.

GREG BRANN is the owner operator of Big Spring Farm in Tennessee, where he uses multi-species grazing practices. His 700-acre farm includes pasture for beef cows, stocker calves and hair sheep, donkeys and dogs as guardian animals, and meat goats. He manages his woodland for timber and grown Christmas trees, and the native grassland on his property is managed as CREP land to promote wildlife habitat. Greg also serves as a grazing and soil health consultant for regenerative resource restoration, and he works with the Tennessee Association of Conservation Districts (TACD). Greg has his B.S. in Plan Science from the University of Tennessee. He has over 39 years of experience with the Natural Resource Conservation Service and is a Certified Crop Advisor (through 2013). He was recognized as the National Grazing Conservationist of the Year in 2014 and has produced numerous publications fact sheets and presentations about grazing and soil health practices. Greg hosts a well-attended annual pasture walk on his farm in October of each year.



DON BUSTOS is a farmer from Northern New Mexico, farming land that has been in his family since the Spanish Land Grant of 1598. He was one of the first farmers in New Mexico to receive organic certification and has been certified for over 20 years. He has received numerous awards including New Mexico Farmer of the Year in 2006, New Mexico Organic Farmer of the Year in 2012, New Mexico State University's Leyendecker Agriculturalist of Distinction and the James Beard Foundation Leadership Award in 2015. Don serves on the board of the New Mexico Acequia Association, a New Mexico based organization that addresses water and land issues. He served on the USDA Western SARE board and was the board chair from 2011 to 2013. He also served on the board of the National Campaign for Sustainable Agriculture and was a founding member of National Immigrant Farmers Initiative (NIFI). Don was co-director of the American Friends Service Committee's New Mexico program, where he focused on training beginning farmers and developing

farmer networks throughout the state. Don played a lead role in developing the vision and raising the funds for the Santa Fe Farmers Market and has helped establish several food networks across the state of New Mexico.

JEANNE CARVER and her husband, Dan, own and operate the historic Imperial Stock Ranch (est. 1871) in north central Oregon, which has produced sheep, cattle, grains and hay throughout its history. In the late 1990's, with a collapsing wool market and a diminished U.S. textile infrastructure, they moved from commodity wool sales to a new direction. Similar to the farm-to-fork "slow food" movement that reconnects us to our food, Jeanne pieced together a fiber supply chain as close to home as possible. Combining the ranch's heritage and mindful stewardship of land and animals in her marketing messages, she connected a growing customer base for textile products to the origin of those products. In an era of outsourcing and disconnect, she led with product traceability and accountability. Imperial Stock Ranch scaled up while maintaining its intimate connection to land and animals, and became what Jeanne refers to as a "Farmer's Market of Textiles," known across multiple segments of the textile industry. Against great odds, Jeanne built a successful yarn, fabric and finished goods business with products in five unique market channels. In 2014, Jeanne and the Imperial Stock Ranch, became the face of Ralph Lauren's Made in America Olympic uniform program. And in 2017, Imperial Stock Ranch became the first ranch in the world certified under a new voluntary global program called the Responsible Wool Standard. For the Olympic and Paralympic Winter Games PyeongChang 2018, Imperial Stock Ranch is again one of the stories behind Ralph Lauren's Team USA uniforms, as the wool program for the Imperial Stock Ranch American Merino yarns provided by National Spinning Co., Inc., for the Opening and Closing Ceremony knitwear.

DR. CARLENE A. CHASE is an associate professor in the Horticultural Sciences Department at the University of Florida in Gainesville where she has a teaching and research appointment. In addition to teaching undergraduate and graduate sections of the course "Weed Management for Organic and Sustainable Cropping Systems," she also supervises M.S. and Ph.D. students in the Horticultural Sciences Department and in the Interdisciplinary Ecology program of the School of Natural Resources and the Environment, serves on graduate committees, and hosts undergraduate research interns. Her areas of research are ecological weed management and the biology and ecology of weedy plants. In seeking to reduce the environmental footprint of weed management, much of Dr. Chase's research is focused on evaluation of cover crops and living mulches for their utility in suppressing weeds. Her current research projects also include cover crops that suppress plant-parasitic nematodes in addition to weeds, cover crop polycultures, and sustainable and organic strawberry cropping systems.

DR. CHARLOTTE CLIFFORD RATHERT received her bachelor's degree in Animal Science from University of Nevada- Reno in 1981. She received a Doctor of Veterinary Medicine from the University of Missouri, Columbia in 1992. She practiced in a mixed animal practice in Central Missouri before joining Lincoln University of Missouri in November 2007 where she served as the State Small Ruminant Extension Specialist until her recent transition to USDA APHIS Veterinary Services as a Field Veterinary Medical Officer in 2017.

LINDA COFFEY and her husband, Ken, have run a commercial small ruminant operation since 1986. They spent 10 years in Southeast Kansas and have farmed in Northwest Arkansas for the past 22 years. Their primary focus has been on raising meat-type wooled sheep — including the rare Gulf Coast breed, which is parasite-resistant—and they sell their lambs to local ethnic consumers. They also sell some fleeces to local spinners. They added Alpine dairy goats to the farm in 2001. Until 2017, they sold raw goat milk locally and made cheese for home use. Linda is a sheep and goat specialist for ATTRA (www.attra.org), which is a project of the National Center for Appropriate Technology (NCAT). Linda received her BS and MS degrees from the University of Missouri in Animal Science. Since joining NCAT, Linda has authored numerous publications about goats, sheep, internal parasites, organic livestock, and other topics.

DAN CORNELIUS is the Intertribal Agriculture Council's (IAC) Technical Assistance Specialist for the Great Lakes Region, which includes Wisconsin, Minnesota, Michigan, and Iowa. His position focuses on helping Indian Tribes and Native food producers gain better access to USDA programs, as well as on general food and agricultural issues. Much of his current work centers on strengthening connections and partnerships among the region's food producers and communities, a task highlighted by IAC's Mobile Farmers Market. Mr. Cornelius also works for the University of Wisconsin Law School where is works on the development of producer cooperatives, supply chain analysis, and legal and policy aspects of food and agriculture.

JEAN-PAUL COURTENS is a native from the Netherlands. He is a graduate of Warmonderhof (part of Groenhorst Ag College), specializing in biodynamic farming. He moved to the US in 1986. Jean-Paul founded Roxbury Farm in 1990. Roxbury Farm is an integrated operation, producing vegetables, beef, pork and lamb on 425 acres located in Kinderhook, NY serving 1100 CSA members in NYC, Westchester and Columbia County and the Capital District. Jean-Paul has three kids and he is proud that all three are working with nature either as a farmer or gardener. His middle son Johannes joined the farm again two years ago. Jean-Paul has dedicated much of his career to educating the next generation of farmers. He was part of the original CRAFT (Collaborative Regional Alliance of Farmer Training) in 1995. He shared many resources on the Roxbury Website known as the Roxbury Farm Manuals and taught many workshops on topics from "Soil Health Management" to "Farming with Empathy". Between 2014 and 2017, Jean-Paul created the ProFarmer program at the Hudson Valley Farm Hub in Hurley NY; an on-the-job training program to provide a path to farm-ownership. During this time, he guided the transition of their 1250-acre sweet corn operation to organic practices. Jean-Paul was awarded 2018 Farmer of the Year by NOFA New York in January, 2018.

DOUG CRABTREE and his wife Anna own and operate Vilicus Farms, a 6,800-acre certified organic dry-land farm growing 12 to 15 grain, pulse, broadleaf and oilseed crops annually. Having started the farm "from scratch," they share a passion for beginning farmers. Doug has been an active member of the Farmers Advisory Council and regular participant in the Organic Trade Association's (OTA) Policy Conference and Hill Visits. He currently serves on the Board of Directors of OTA as the chair of the Community Relations Committee. Prior to launching the farm, Doug managed the State of Montana's Organic Certification Program.

NANCY CREAMER is a Distinguished Professor of Sustainable Agriculture and Community Based Food Systems at NC State University, and Director of the Center for Environmental Farming Systems (CEFS). CEFS includes a 2000 acre sustainable and organic agriculture research, outreach, and teaching facility, and also has programs statewide in local food systems development. She provided leadership for a statewide North Carolina initiative engaging many diverse sectors resulting in a statewide action plan: From Farm to Fork, a Guide to Building North Carolina's Sustainable Local Food Economy, and has spearheaded the development of many of the strategic initiatives identified in the report. Dr. Creamer was a member of the USDA Specialty Crops Advisory Committee, and has

served as a consultant to the European Commission on funding and evaluation of European-wide organic agriculture research activities. She was appointed by the North Carolina Governor to the legislated NC Sustainable Local Foods Advisory Council in 2010, and was Vice Chair of the Council through 2013. She is currently chair of the NC Local Food Council. Dr. Creamer was appointed in 2014 as a founding Board member for the Foundation for Food and Agriculture Research which was allocated $200 million in the 2014 Farm Bill to support agricultural research.

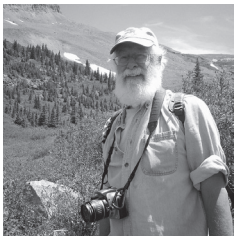
JEFFREY CREQUE is a co-founder of the Marin Carbon Project (www.marincarbonproject.org) and Director of Rangeland and Agroecosystem Management at the Carbon Cycle Institute (www.carboncycle.org), where he focuses on strategies to increase soil carbon for multiple ecosystem benefits. Jeff is currently engaged in training Ranchers, Farmers and Resource Conservation District personnel across California and the U.S. in strategies for increasing carbon capture and sequestration on working lands within a whole-farm planning and implementation framework known as Carbon Farm Planning. He holds a Ph.D. in Rangeland Ecology and is a California State Board of Forestry Certified Rangeland Manager and USDA-NRCS certified Conservation Planner and Comprehensive Nutrient Management Planner. Jeff has over thirty-five years of hands-on experience in bio-intensive agriculture, rangeland management, soil carbon enhancement and watershed restoration.

HEATHER DARBY is an Agronomic and Soils Specialist for the University of Vermont Extension. Being raised on a dairy farm in Northwest Vermont, has also allowed her to play an active role in all aspects of dairy farming as well as gain knowledge of the land and create an awareness of the hard work and dedication required to operate a farm. These practical experiences complemented by her education have focused her attention towards sustainable and organic agriculture and promotion of environmental stewardship of the land. Darby's outreach and research programs have focused on delivering practical on-farm education in the areas of soil health, nutrient management, organic grain and forage production, and oilseed production. Heather also operates a diversified certified organic farm with her husband Ron Hermann.

DAN DESUTTER farms 4,500 acres in west-central Indiana with his wife and three sons. Formerly a financial analyst and commodity broker, Dan uses no-till, cover crops, diversity and cattle to improve soil quality while maintaining high levels of crop production. In 2013, he was selected National No-Till Innovator of the year. In 2015, he was awarded an Eisenhower Fellowship to study the social, cultural and economic factors that drive producers to use regenerative soil health practices. A partner in Hoosier Grassfed Beef, Dan is active in his community having served as President of the Attica School Board and the Attica Community Foundation. He is also an avid pilot and skier.

PAUL DIETMANN is a Senior Lending Officer in the Mission Financing group at Compeer Financial, a member-owned rural lending cooperative and Farm Credit System institution serving Illinois, Minnesota, and Wisconsin. Paul and his colleague, Sai Thao, are responsible for Compeer's Emerging Markets Loan Program, which provides loans to farmers who market their products through local food systems. Prior to joining the staff at Compeer, Paul spent 16 years with the State of Wisconsin; eleven years as a county agriculture agent with the University of Wisconsin-Extension and five years as director of the Wisconsin Farm Center, which is the farmers' assistance program in the Wisconsin Department of Agriculture, Trade and Consumer Protection (DATCP). He served as Wisconsin's Deputy Secretary of Agriculture in 2010. Paul holds a Bachelor of Science in Agricultural Economics from the University of Illinois, and a Master's Degree from UW-Madison. He is co-author of the book Fearless Farm Finances: Farm Financial Management Demystified.

SHERI DOYEL: For over a decade, Sheri Doyel has worked to support small- and mid-sized farmers. In 2007 she was contracted to be the Farm Forager for both the City of Chicago and the Green City Market to recruit producer-vendors and advise on rules and regulations to strengthen those markets. In 2009, she began working at Angelic Organics Learning Center (AOLC) as the Program Director for their Farmer Training Initiative. Sheri scaled back her responsibilities in 2011 to be their Program Facilitator in order to launch her own small farm business, Tiny Tempest Farm in Lake Geneva, WI. Since 2011, Sheri has focused on leading the Stateline Farm Beginnings program at AOLC, and has acted as liaison to the Farm Beginnings Collaborative (FBC). She is managing the effort to bring more organizations on board the FBC so that they too might offer Farm Beginnings – a training program with an approach she feels passionate about. At Tiny Tempest Farm, Sheri grows vegetable, herb, and flower seedlings and winter vegetables for various markets in Chicago and southern Wisconsin.



JIM DYER is director of Healthy Community Food Systems (www.hcfs.org), past director of the Southwest Marketing Network serving producers and communities in the Four Corners states, and board member of the National Farm to School Network. Jim earned a BS in Meteorology and an MA in Natural Science, with postgraduate study in renewable resources, meteorology, and geography. He was a community college professor for ten years teaching climate and earth sciences, ran a sustainable agriculture education farm, and directed programs at Rocky Mountain Institute for six years. Jim has served on advisory groups for The Land Institute and Colorado State University Extension and chaired the Administrative Council of the USDA's Western Region Sustainable Agriculture Research and Education Program. Jim has over 20 years' experience working with Native American projects in the Southwest, 10 years previously running the Colorado Organic Producers Association, 15 years in Farm to School work, and over 30 years in sustainable agriculture. Jim and his wife Pam raise Navajo Churro sheep, rare breed chickens, and much of their own food on their farm southwest of Durango, Colorado.

BARRY FISHER serves the Central Region Leader for the Soil Health Division of the Natural Resources Conservation Service where he provides technical exchange for Soil Health Strategy implementation training and assistance to NRCS, farmers and partners throughout the Corn Belt and Northern Plains. He assists with state and regional initiatives which advances the technology of quality no-till, cover crops, adaptive nutrient and pest management, and crop rotations with precision technology. Barry serves on the National Soil Health Training Cadre for NRCS. He represents NRCS on the Midwest Cover Crops Council. Barry is a Certified Crop Advisor though the American Society of Agronomy. He has been employed with the United Sates Department of Agriculture for 36 years. Barry and his wife Michael operate a cash grain and livestock farm in West- Central Indiana. He has a Bachelor of Science Degree in Agronomy from Western Kentucky University and is a native of French Lick, Indiana.

BEN FLANNER is the CEO, Director of Agriculture, and co-founder of Brooklyn Grange. A pioneering urban farm operation, the business farms rooftops, builds green spaces, and promotes sustainable living and local ecology through food, education, and events. The business includes over 2 ½ acres of intensive green roofs, and sells its produce via restaurants, farmer's markets, and CSAs. Brooklyn Grange is widely recognized as a world leader in urban agriculture, with an unwavering drive to develop the concept with an exceptional green and community minded business. Prior to founding the Brooklyn Grange, Ben co-founded and managed the Eagle Street Rooftop farm in 2009. He has a BS degree in Industrial Engineering from the University of Wisconsin, and prior experience in management consulting and marketing. Ben was born and raised near Milwaukee, Wisconsin and currently resides in Brooklyn, New York. The Brooklyn Grange received the LICBDC Green Business Award in 2010, the Green Roofs for Healthy Cities Award of Excellence in 2011, the Queens Community Business Award from Mayor Bloomberg's office in 2012, and the New York Environmental Champion award in 2015 from the EPA.

MATT FREUND is a second generation dairy farmer in East Canaan, Connecticut. He farms with his brother, wife and children. The family operates three unique farm businesses. Freund's Farm is a 300 cow dairy and was the first in Connecticut to use robotic milkers. Freund's Farm Market & Bakery, owned by Matthew's wife, is open year round with a greenhouse, commercial kitchen and market. The third business is Matt's innovation, CowPots, a biodegradable pot made from composted cow manure. Through the production and marketing of CowPots, the Freunds have been able to alleviate the farm of excess nutrients (cow manure) while adding value to their dairy farm's byproduct. Matt serves as Chair to the North Canaan Wetlands Commission, member of the Northeast SARE Advisory Council and is an active member of his dairy cooperative's (Agri-Mark) Sustainable Farms Committee.

THERESA FREUND did not grow up on a farm but was quick to discover her passion for food and farming when she joined Future Farmers of America. In fact, she was the only female Vocational Agriculture student in her high school graduating class. She continued her study of agriculture at Purdue University where she earned her degree in 1982. What began as a summer job at Freund's Farm in 1979, became a much longer term commitment when she married the youngest son, Matthew. She chose marketing over milking as she grew her family from two to four to six. Theresa's marketing pursuits began with the family's roadside 'stand'; a door propped up on two blocks holding a bushel basket of sweet corn. Over the past three decades, Theresa has evolved that business into a two-story post and beam farm market with a bakery, garden center and catering business sitting in the middle of the family's dairy farm. From leading Girl Scout troops to after school activities and local community events, she is always eager to talk about local food, recipes and farming practices. In addition to her farming and community activities; Theresa just completed seven years serving on the State Board of Directors for Connecticut Farm Service Agency and is serving as a Cooperator of the Torrington Savings Bank.

ERIC GALLANDT is a Professor of Weed Ecology and Management at the University of Maine's School of Food and Agriculture. His research program focuses on the dynamics and management of annual weeds in organic farming systems. As a general strategy, Eric's team conducts research on the multiple stresses that can be used to suppress weeds at various points in their life histories. This philosophy of using "Many Little Hammers" aims for cumulative effects that result in decreasing weed populations over time. Past projects have studied cover cropping and associated disturbance regimes to maximize debiting of the weed seedbank, as well as seed predation and improved crop competition, strategies to reduce credits to the seedbank. Current research projects aim to support ecologically based management practices with improved physical weed control, achieved by "stacking" cultivation tools or using precision guidance and inter-row hoeing, and band-sowing to enhance competition in cereals and other grains. Eric's teaching efforts support the University of Maine Sustainable Agriculture Program, including courses on the Principles and Practices of Sustainable Agriculture, Weed Biology and Identification, and Weed Ecology and Management. He supervises the UMaine student organic farming enterprise, the "Black Bear Food Guild," and he started UMaine Greens, a student group growing produce for use in campus dining facilities.

LAMONTE GARBER has worked for 30 years in agricultural water quality protection and natural habitat restoration. As Stroud Water Reserch Center's Watershed Restoration Coordinator, he coordinates agricultural and watershed restoration projects with many partners, and uses state, federal and private funding combined with landowner funds. He integrates riparian forested buffers and soil health practices in watershed restoration projects on cooperating farms. Prior to his work at the Stroud Center, Lamonte held positions at the Chesapeake Bay Foundation, the Pennsylvania Association for Sustainable Agriculture, and the Environmental Quality Initiative. He helped develop PA's REAP state tax credit program and the Nutrient Management Program. He chairs the Southeast PA Region of the Keystone Chapter of the Soil and Water Conservation Society, and works closely with the Pennsylvania No Till Alliance. He has a B.S. in Agricultural Economics from Penn State University and attended Warwick High School in Lititz, PA. He lives in Lancaster, PA.

AMY GARRETT is an Assistant Professor (Practice) for the OSU Extension Service Small Farms Program. Drought mitigation tools and strategies for growing with little or no irrigation have become a focus in her work over the past several years. The Dry Farming Project she is leading has expanded since 2013, from case studies with dry farmers and dry farming demonstrations throughout Western Oregon, to participatory research with growers throughout the maritime Pacific Northwest and beyond in the Dry Farming Collaborative. For more information visit: http://smallfarms.oregonstate.edu/dry-farm/dry-farming-project.

PAUL GREIVE is a Marine Corps Officer turned Certified Public Accountant turned Pastured Poultry Farmer. He started farming in 2012 when his family ordered 50 chicks out of their desire to eat chicken truly grown outdoors. Their farm has grown to one of the largest pastured poultry producers in the USA, serving clients like Wolfgang Puck, the LA Lakers, and the LA Dodgers. They also serve more than 5,000 customers direct to consumer through their online retail business, Primal Pastures. The production business, Pasturebird, utilizes daily movement to fresh irrigated pasture for every single chicken to provide the optimal habitat for the birds to thrive. With over 200,000 chickens raised to date, Pasturebird hasn't used a single vaccine, drug, antibiotic, or feed additive. The poultry manure is beneficial to the soil, building organic matter and sequestering carbon year after year while the chickens enjoy fresh air, sunshine, and grass, bugs, seeds, and worms. Their online retail business, Primal Pastures, has grown to offer home delivery to 7 states across the USA with farm to doorstep shipping. In addition to Pasturebird poultry, Primal Pastures offers pasture raised beef, lamb, pork, raw local honey, and wild local seafood.

JOEL GRUVER grew up on a small diversified organic farm in North-Central Maryland. He earned a BS in Chemistry from Principia College, an MS in Agronomy from the University of Maryland and a Ph.D. in Soil Science from North Carolina State University. He is currently an Associate Professor of Soil Science and Sustainable Agriculture in the School of Agriculture at Western Illinois University in Macomb, IL. He teaches 4 soil science classes and 2 conservation classes each year and is recognized for his innovative teaching methods. In 2015, he received the National No-Till Educator of the Year Award. In addition to teaching, Dr. Gruver is the Director of the WIU Organic Research Program. Recent research projects have focused on managing cover crops, weeds and nutrients and reducing tillage in organic grain production systems.

WILL HARRIS is a fourth generation cattleman, who tends the same land that his great-grandfather settled in 1866. Born and raised at White Oak Pastures, Will left home to attend the University of Georgia's School of Agriculture, where he was trained in the industrial farming methods that had taken hold after World War II. Will graduated in 1976 and returned to Bluffton where he and his father continued to raise cattle using pesticides, herbicides, hormones and antibiotics. They also fed their herd a high-carbohydrate diet of corn and soy.

These tools did a fantastic job of taking the cost out of the system, but in the mid-1990's Will became disenchanted with the excesses of these industrialized methods. They had created a monoculture for their cattle, and, as Will says, "nature abhors a monoculture." In 1995, Will made the audacious decision to return to the farming methods his great-grandfather had used 130 years before.

Since Will has successfully implemented these changes, he has been recognized all over the world as a leader in humane animal husbandry and environmental sustainability. Will is the immediatepast President of the Board of Directors of Georgia Organics. He is the Beef Director of the American Grassfed Association, and was selected 2011 Business Person of the year for Georgia by the Small Business Administration.

Will lives in his family home on the property with his wife Yvonne. He is the proud father of three daughters, Jessi, Jenni, and Jodi. His favorite place in the world to be is out in pastures, where he likes to have a big coffee at sunrise and a 750ml glass of wine at sunset."

GREG HALICH is an Agricultural Economist at the University of Kentucky where he works with farmers on profitability evaluation and improvement on livestock and grain farms. Current production focus areas are grass-finished beef, bale grazing (winter feeding technique that reduces machinery and labor and increases pasture fertility), extended season grazing, grazing systems, organic grain production, and how to effectively manage fixed costs of production (depreciation and interest). He lives and farms outside of Lexington Kentucky where he produces grass-finished beef.

TREVOR HARDY is a 7th generation farmer at Brookdale Fruit Farm Inc. in Hollis, New Hampshire. He received a B.S. degree in Industrial Engineering from Western New England University. He works his family's diversified fruit and vegetable farm alongside his father, brother and other family members. Trevor manages the irrigation and row crop supplies division of the family business that covers the northeast region of the US. He enjoys helping farmers, like himself, learn how to efficiently irrigate their crops and is constantly learning how new crop growing advancements can help to increase efficiency on the farm. Besides selling the irrigation products he also engineers irrigation designs for customers and NRCS projects. Trevor is currently the Hillsborough County Farm Bureau President, Vice President of the New England Vegetable and Berry Growers Association, and sits on other local and state boards.

STEVE HART received his B.S. in Dairy Science from Texas A&M in 1972. He had the distinction of being one of the last of the draftees and served in the US army for two years at Ft. Belvior, Virginia as a personnel management specialist. He returned to Texas A&M for his MS in Dairy Science, working with forage sorghum hybrids for silage for dairy animals. He worked on his Ph.D. with Dr. Carl Polan at Virginia Tech, doing studies in calf nutrition and branch-chain volatile fatty acids for lactating cows. Upon graduation in 1981, he went to work for the USDA at Ft. Reno, Oklahoma conducting research with forages for cattle and sheep and later did collaborative work with Langston University on forages and nutrition for goats. Steve was hired by Langston University in 1991 and conducted studies with forages for goats and nutrient requirements. He has been extensively involved in extension work with goats and has spoken many times about parasites, vegetation management, goat management and nutrition. He did a number of studies with using goats for vegetation management and is still involved in such studies. He has also worked in control of gastrointestinal nematodes, working with sericea lespedeza for parasite control as well as testing a variety of alternative dewormers. He is part of a large study with farmer collaborators on selecting goats for genetic resistance to gastrointestinal parasites. He was awarded a grant to work with controlling redcedar with goats which he is working to finish.

JENNIFER HASHLEY is Director of the New Entry Sustainable Farming Project, a beginning farmer training program that assists diverse individuals to begin farming in Massachusetts. New Entry operates farmer training and education programs and an incubator farm, a regional food hub, and several national networks supporting incubator farm organizations and apprenticeship training programs. Jennifer is also a vegetable and pasture-based livestock farmer and serves on the Boards of The Carrot Project (a small farm financing nonprofit) and the Urban Farming Institute of Boston. She is a farm business planning instructor for Massachusetts Department of Agricultural Resources and is a strategic advisor to several regional food systems initiatives. She served as an agricultural Peace Corps Volunteer in Honduras and holds a Master's in Agricultural Policy from Tufts University and a BS in Environmental Science from Indiana University. She was also selected as an Eisenhower Agricultural Fellow in 2016 and traveled to Nigeria, Ghana and Liberia to explore smallholder farmer training programs.

FERD HOEFNER is the senior strategic advisor for the National Sustainable Agriculture Coalition (NSAC), a 30-year old coalition of over 120 grassroots farm, food, conservation, and rural organizations from all regions of the country that together advocate for federal policies supporting the economic, social and environmental sustainability of agriculture, natural resources, and rural communities. Ferd is a veteran of eight farm bill campaigns over a 40-year span, including five as NSAC's policy director, two as a farm policy advocate for the Interreligious Taskforce on US Food Policy, and one as an intern for a senior member of the House Agriculture Committee. He has also worked extensively on budget and appropriations, tax, food safety, and environmental legislation. NSAC helped create and fund SARE and has also successfully developed and championed the Conservation Stewardship Program, Wetlands Reserve Program, Conservation Reserve Program conservation buffers, Farmers Market and Local Food Promotion Program, Beginning Farmer Down Payment Loan Program, Beginning Farmer and Rancher Development Program, Whole Farm Revenue Protection, National Organic Certification Cost-Share Program, Farm to School Grants, and Value-Added Producer Grants, among others. Hoefner currently serves on the Board of the Riley Memorial Foundation and as an Advisor to AGree.

SAVI HORNE is Executive Director of the North Carolina Association of Black Lawyers Land Loss Prevention Project, which was founded in 1983. The Land Loss Prevention Project is a non-profit, public interest law firm with an overarching mission of providing legal expertise, community education, and advocacy skills to help farmers and rural landowners who face legal, economic, and environmental challenges. Savi was a co-Team Leader of the Diversity Initiative of the Farm and Food Policy Project (FFPP). The FFPP was a W.K. Kellogg Foundation-funded project, that advocated for policy changes in the 2008 federal Farm Bill, the project was facilitated by the Rural Coalition. In the 2014 Farm Bill policy advocacy process she was a member of Getting Our Act Together, a national collaboration. Savi completed six-years of service on the United States Environmental Protection Agency's National Environmental Justice Advisory Council, in 2016. Savi serves on the boards of the National Family Farm Coalition and the Rural Coalition. As a state, regional and national non-governmental organization leader, she has been instrumental in addressing the needs of small and socially-disadvantage farmers.

BECCA JABLONSKI is an Assistant Professor and Food Systems Extension Economist in the Department of Agricultural and Resource Economics at Colorado State University. As part of her position, she facilitates the Colorado Governor's Food Systems Advisory Council and is a co-leader of Colorado State University's Food Systems Extension Team. She has 15 years of experience working across many aspects of the food system, most recently serving as a Doctoral Fellow with the U.S. Department of Agriculture's (USDA) National Institute of Food and Agriculture, a Visiting Scholar with the USDA's Economic Research Service, and an Agricultural Economic Development Specialist with Cornell Cooperative Extension of Madison County. Dr. Jablonski's research and extension efforts focus on understanding the impacts of strengthened rural-urban linkages on farmers, supply chain participants, and rural/regional economies. Dr. Jablonski holds a Ph.D. from Cornell University.

DR. KRISTA JACOBSEN is an agroecologist and educator at the University of Kentucky, where she is an Assistant Professor in the Department of Horticulture. She is the Director of Undergraduate Studies of UK's Sustainable Agriculture program, and a long-term member of the Sustainable Agriculture Education Association Steering Council. In her courses, she focuses developing her students' holistic, systems thinking skills and their ability to communicate their perspectives on the economic, environmental, and cultural aspects of sustainable agriculture. Service and experiential learning are regular components of her courses. Her students can be found working in community gardens, working with local non-profit organizations, or getting their hands dirty in the field or the lab. In recent years she has incorporated international perspectives into her courses, including leading a study abroad course to Indonesia focused on sustainable agriculture and sustainable development.

GREG JUDY runs a grazing operation on 1620 acres of leased and owned land alongside his wife Jan in Clark, Missouri. Greg and Jan went from near bankruptcy in 1999 to paying off a 200-acre farm and house in 3 years with custom grazing on leased land and are completely debt free today. Today they own 4 farms and lease 12 farms. Holistic High Density Planned Grazing is used to graze cow/calf pairs, bred heifers, bulls, and stockers. They own a 350 head grass genetic cow herd, 200 hair sheep flock, graze heritage breed pigs, trained guardian dogs, pastured layers and raise shitaki mushrooms. They market grass-fed beef, lamb, pork, mushrooms. They also market grass genetic bulls and heifers along with parasite resistant rams and ewe lambs. Greg wrote a book in 2001, entitled "NO RISK RANCHING, Custom Grazing On Leased Land," it covers the methods they used to build their operation from scratch. In 2008 Greg wrote a second book "COMEBACK FARMS, Rejuvenating Soils, Pastures and Profits with Livestock Grazing Management." Greg quit his off farm job in 2009 and is now a full time rancher.

A.G. KAWAMURA is a third generation produce grower and shipper from Orange County, California. From 2003 to 2010 he was the secretary of the California Department of Food and Agriculture. He is co-chair of Solutions From the Land (SFL), a nationally recognized non-profit that is developing innovative and sustainable collaborations for 21st century agriculture. He serves on several boards and committees including the Ag Advisory Committees for the Chicago Council and AGree Initiative; American Farmland Trust Board; Farm Foundation Board; Western Growers Association Board and former chair. He serves on both the Southern California Water Committee and the CA Water Reuse Foundation. For over 40 years Mr. Kawamura has pursued a lifelong goal to work towards an end to hunger and malnutrition. Locally, he is founding chair of Solutions For Urban Ag (SFUA) and has worked closely with Second Harvest and Orange County Food Banks to create exciting urban ag projects that focus on nutrition, hunger, education and advanced food systems. As a progressive farmer, Mr. Kawamura has a lifetime of experience working within the shrinking rural and urban boundaries of southern California. Through their company, Orange County Produce, LLC, he and his brother Matt are engaged in building an interactive, 21st century 70-acre agricultural showcase at the Orange County Great Park in Irvine, California. A.G. graduated with a BA from UC Berkeley. He is a long time resident of Newport Beach where he lives with his wife Dianne.

KEVIN KLAIR is an Extension Economist at the Center for Farm Financial Management in the Department of Applied Economics at the University of Minnesota. He has more than 30 years of experience teaching farm management workshops and developing farm financial management software tools. He has had a major role in the development of a number of farm management tools including AgPlan: an online business planning tool that has been used to develop over 60,000 business plans; the Ag Risk & Farm Management Library; Farm Answers, the beginning farmers information clearinghouse; and the FINPACK farm financial planning and analysis software.

ERIC KLEIN and his wife Lisa are the owners of Hidden Stream Farm in Elgin, Minnesota. They raise and market grass fed beef, pastured poultry and deep bedded antibiotic free hogs. They also manage rotational grazing and growing organic and transitional corn, oats, barley and alfalfa. Their family farm has been utilizing rotational grazing and chemical free farming for 2 ½ generations. They have been marketing their meat products for 18 years and have evolved into a leading local food distributor in the Minnesota market for their meat products and other local foods to restaurants, corporate accounts and customer direct. In June of 2017 Eric and Lisa's newest endeavor was the opening of Dover Processing Inc, a full service USDA inspected meat processing facility.

MARGARET KROME is Policy Program Director for the Michael Fields Agricultural Institute in East Troy, Wisconsin. For over 20 years, Ms. Krome coordinated the National Sustainable Agriculture Coalition's annual national grassroots campaign to fund federal programs prioritized each year by NSAC's member groups; she currently assists NSAC staff with that campaign. Ms. Krome helps coordinate a farmer-led watershed group in Southwest Wisconsin, including creating a cultural link between these conservation farmers and fishermen in the Gulf of Mexico whose livelihoods depend on the quality of the water coming off of their farms. She also coordinates a cover-crops collaboration in Wisconsin, conducts related conservation initiatives, and develops and supports other state and federal policy programs and policies supporting environmentally sound, profitable, and socially responsible agriculture. For two decades, she has developed publications and programming to help farmers and groups serving them to write successful grants to state and federal programs supporting sustainable agriculture. Ms. Krome served on Wisconsin's Board of Agriculture from 2003 until 2013 and currently sits on the Board the National Center for Appropriate Technology. She writes a bi-weekly editorial column for The Capital Times in Madison.

SANDI KRONICK: Since founding Eastern Carolina Organics in 2004, Sandi Kronick has been one of the leaders working to build a sustainable organic food system in North Carolina and the southeast region of the US. Owned through a unique partnership between Sandi and 17 organic farms, ECO has paid hundreds of regional organic farmers over $26M in its 14-year history. Sandi received her B.A. in Environmental Studies from Oberlin College, and currently serves as the Agribusiness representative and Chairperson of the Limited Resource and Minority Farmer Committee on the Southern SARE Administrative Council of the USDA. She has given hundreds of workshops about the sustainable food movement; integrity and transparency in the supply chain; as well as on all aspects of the Eastern Carolina Organics business model including financing, marketing, employee engagement, and grower-ownership.

CLAY LANDRY is the Managing Director and a Principal of WestWater Research has over 25 years of experience in water acquisition and valuation projects throughout the United States. Landry leads the firms acquisition programs at a national level and is currently managing the largest water rights acquisition program in the United States on behalf of the Central Arizona Groundwater Replenishment District. Through those efforts, he has implemented innovative farm rotational fallowing, water leasing and water banking programs that balance urban and agricultural water demands. Under Landry's leadership, WestWater has had two transactions it originated nominated as Water Deals of the Year by the Global Water Awards. Landry is also an owner and operator of Double L Livestock, a family owned ranching business that specializes in Red Angus cattle. With a focus on soil health, he has introduced cover crops and no-till farming practices within the ranch's intensive grazing program. Prior to founding WestWater Research, Landry was an associate at the Political Economy Research Center (PERC), a public policy research institute that specializes in market approaches to natural resource management. With a strong commitment to market-based stewardship, Landry helped establish the Montana Water Trust, a private nonprofit that leased water rights for stream flow protection. Landry holds a master's degree in agriculture and resource economics from Oregon State University and a bachelor's degree in economics from the University of Wyoming.

ANDRÉ LAVAR BARBOUR lives in a small rural community in Canmer, Kentucky. He has two beautiful girls Alyssa (7) and Alexandrea (Lexie, 12) and a loving wife, Angie. He's 40 years old and still farming on his family farm with his family and for himself. Farming has always been in Andre's blood. As tobacco was their main cash crop for over 70 years, it was becoming a headache. They milked, raised tobacco, hogs, and a few beef cows. After the tobacco buy-out and when smaller farmers year after year were losing contracts, Andre' needed to prepare for a change. In 2003, he started into vegetable production. Then a few years afterwards he started doing value-added products, then added pastured poultry, rabbits, season extension, and is now adding bees. On top of

all that Andre's family still produces dairy, and raises hogs and beef cattle. Andre' loves farming and will until the day he dies. Farming is his life as well as his family. He says, "Even at times it seems like you lose more money than your checking account ever shows I still have the love."

ERIC LEE-MÄDER: Author, ecologist, and farmer Eric Lee-Mäder co-directs the Pollinator Conservation and Agricultural Biodiversity program at the Xerces Society. He collaborates with government agencies, international development organizations, food companies, and farmers to protect wildlife habitat on farms. Since 2008, Eric's team has restored pollinator habitat across more than 400,000 acres. His work has been featured in major media, White House reports, and his books including *Attracting Native Pollinators*, and *Farming with Beneficial Insects*. Eric's background includes beekeeping, crop consulting for the seed industry, and an Extension role in entomology.

LAURA LENGNICK is an award-winning soil scientist who has explored agricultural sustainability for more than 30 years as a researcher, policy-maker, educator, and farmer. She is the recipient of a USDA Secretary's Honor Award for her sustainable farming systems research and contributed to the 3rd National Climate Assessment as a lead author of the USDA report *Climate Change and U.S. Agriculture: Effects and Adaptation*. After leading the sustainable agriculture program at Warren Wilson College for 12 years, Laura left the college in 2014 to launch Cultivating Resilience, LLC, a private consulting firm offering ecosystem-based climate risk management services to civil society, business and government. She is a Vice President at Climate Optimize, Inc, and serves as an advisor to the North American Climate Smart Agriculture Alliance. Her award-winning book, *Resilient Agriculture: Cultivating Food Systems for a Changing Climate (New Society Publishers)*, examines climate change, resilience and the future of food through the adaptation stories of 27 leading sustainable farmers and ranchers located across the U.S. You can learn more about Laura and her work at www.cultivatingresilience.com.

SARAH LLOYD is the Special Projects Coordinator for the Wisconsin Farmers Union and the Secretary of the Board and Director of Development for the Wisconsin Food Hub Cooperative. In addition to her off-farm work Sarah farms with her husband Nels Nelson on the Nelson family dairy farm. Sarah has a Ph.D. in Rural Sociology and co-teaches the Agriculture, Food Systems, & Rural Development course in the UW Farm Industry Short Course. She is the President of the Columbia County Farmers Union and also serves on the Board of the Wormfarm Institute, an organization working at the intersection of arts and agriculture, featuring the Fermentation Fest and the Farm/Art Dtour. Sarah recently completed a three-year term on the National Dairy Board and served in an elected position on the Wisconsin Milk Marketing board and the Columbia County Board of Supervisors.

DR. SARAH TAYLOR LOVELL is an Associate Professor of landscape agroecology at the University of Illinois. Her research program has evolved from a unique interdisciplinary background, including an MS and Ph.D. in Agronomy followed by a Master in Landscape Architecture (MLA). She also spent several years working as a Field Research Biologist in the agricultural industry. Dr. Lovell's research focuses broadly on the analysis and design of multifunctional landscapes, with emphasis on urban agriculture and whole-farm planning. The work in urban agriculture assesses the benefits of food production systems including plant biodiversity, pollination services, and cultural functions, as well as the impact on food security of the participating households. Recent grants from USDA, NSF, and the Institute for Sustainability, Energy, and Environment (iSEE) provide support for Lovell's lab to study woody polyculture systems that could offer fruit and nut products, in addition to a wide range of ecosystem services.

NANCY LUNZER has been farming since 1988. Her first farm was in northeast Nebraska where she raised no-till soybeans and corn, farrow to feeder pigs, alfalfa hay and feeder cattle. She founded and operated the largest therapeutic horseback riding program in the state until 1998 when she moved to her home state of Minnesota to manage a Class A Dressage and Hunter Jumper farm until 2003. She currently works from a home office for a title company in St Paul and raises hay and hair sheep. She operates a training kennel and trains puppies for clients across the country. Nancy has received two Farmer-Rancher SARE grants which resulted in a change in State policy to provide reimbursement to landowners who use animals to target invasive plant species. Nancy will be speaking about her efforts to remove invasive buckthorn.

JAKE MADISON, his wife Heather, and their three children are the 4th and 5th generations to be raised on and operate Madison Ranches Inc. The Madison family has been farming in Echo Oregon for over 100 years. The farm started out with a few hundred acres and some sheep and has grown and diversified into an irrigated farm specializing in the production of onions, seed crops, grains, alfalfa hay, biosolids land application, and the beneficial application of industrial reuse water. Curtailment of the farms deep well due to declining ground water levels combined with limited water from the Columbia River has forced the family to become extremely efficient and innovative irrigators.

AMBER MARLOW has been employed by the Lac Courte Oreilles Tribe since 1997; the last 13 years being with Lac Courte Oreilles Ojibwa Community College (LCOOCC), located in Northwest Wisconsin. Currently the Dean of Continuing Education and Extension with LCOOCC, Amber is passionate to provide community education and empower community learning through citizen science and workshop opportunities. She oversees all 1994 land grant programs for the school, to include: research, increasing capacity, a 220-acre sustainable agriculture research station, internships and merit-based agriculture/ natural resource scholarships funded by USDA-NIFA 1994 programs. She is also a member of the North Central Region SARE administrative council and a newly appointed member of the North Central Region Water Network. Her commitment to sustainability is driven by the love for her family and the 7 generations to come.

AMY MATTHEWS: An unlikely farmer, Amy Matthews grew up in the suburbs of Indianapolis, IN avoiding vegetables, spiders, and hard work. As a young adult, it was her college studies in social work and her travels abroad that sparked an interest in agriculture. After working with Food Stamp outreach in Arizona food banks, Amy lived in a beautiful Montana barn and completed an apprenticeship on a CSA vegetable
farm. She then headed back to the urban wilds to mingle social work and farming. In Cleveland and Chicago, she helped build and manage non-profit urban farms that employed low-income youth and adults in job training programs. Amy returned to Indy in 2011 and founded South Circle Farm. South Circle Farm remediated 1.5 acres of vacant land to grow high-quality vegetables for local markets and chefs. SCF is now part of the Mad Farmers Collective, a collaboration of 3 farmers growing on 2 urban farms. Amy has also worked with Purdue Extension Marion County for the past 3 years to develop and implement an extensive curriculum to train new urban agriculture leaders in Indianapolis.

MICHELLE MILLER is associate director at the University of Wisconsin-Madison Center for Integrated Agricultural Systems, the sustainable agriculture research center. A Wisconsin native, she is a practicing economic anthropologist engaged in participatory research with farmers and others who create our food system. In her 20s she worked on fruit and vegetable farms and in restaurants, while advocating for sustainable agriculture. In the 1990s, Michelle worked for World Wildlife Fund on pesticide reduction, for the state department of agriculture's sustainable agriculture demonstration program, and served on her food coop's board of directors. She now serves on the Wisconsin Farmers Union Foundation board. Current research projects focus on agriculture of the middle and regional food economies, food freight logistics, labor and land tenure, resiliency and climate change.

PERRY MILLER is a Professor of Sustainable Cropping Systems in the Department of Land Resources and Environmental Sciences at Montana State University – conducting diversified dryland cropping systems research there since 1998. His dryland research focuses on carbon, nitrogen, and water budgets in diversified wheat-based systems. Research interests include no-till and organic cropping systems, pulse crop agronomy, protein formation in dry pea, winter dicot crops, cover crops (since 1999), and best management practices for soil construction. systems, pulse crop agronomy, protein formation.

STEVEN MIRSKY is a research agro-ecologist in the Sustainable Agricultural Systems Laboratory, United States Department of Agriculture's Agricultural Research Service located in Beltsville, Maryland. His formal training includes an MS in soil science/fertility and Ph.D. in agronomy. Steven conducts research on the effects of cover crops on field crop production (i.e. crop productivity, weed suppression, nitrogen and water use efficiency), and carbon and nitrogen cycling. His program quantifies how soil and climate interact with cover crop management and genetics to influence crop production and resilience, weeds, economics, and environmental impact. Steven's research also emphasizes cover crops in no-till production systems. His research is being integrated into web-based decision support tools for growers. Steven is the project director for the National Legume Cover Crop Breeding program, a collaboration between USDA, Universities, Non-profit organizations, Industry, and Farmers. He is a co-founder and current chair of the Northeast Cover Crop Council; an organization dedicated to address cover crop knowledge gaps, conduct extension and outreach to agricultural professionals and farmers, and provide web-based decision support to growers.

JENNIFER MOORE KUCERA joined the NRCS Soil Health Division in 2015 as the West Regional Soil Health Team Leader. She leads a team of soil health specialists who support the agency's soil health activities in 13 western states and the Pacific Islands. Kucera holds M.S. and Ph.D. degrees in soil science with an emphasis on soil microbial ecology. Prior to joining NRCS, Kucera was an associate professor at Texas Tech University, teaching introductory and graduate level courses in soil science, soil management and soil microbial ecology. Her research programs involved a multi-disciplinary approach to answer field to landscape level questions about soil management and impacts on air and water quality and soil health. She continues this approach in her new role with NRCS where she strives to translate current research on soil health to the landscape and develops training materials on soil health topics to help build capacity within the agency. Through her collaborative relationships and training efforts, she hopes to instill the following philosophy: "By shifting our view of soils from an inert growing material to a biologically diverse and active ecosystem, we can help create more sustainable farms, ranches, and forests to provide the food and fiber for our rapidly growing population while protecting land, air and water resources for future generations."

MS. JEAN MUELLER was raised on a sheep and dairy farm in Southeastern Minnesota. Since 1974 she has been farming in Winona County. Her farm consists of 100 Suffolk sheep, a beef cow/calf operation and commodities of hay, corn and beans. Ms. Mueller is currently semi-retired. Ms. Mueller was the founder and director of The Sheep & Fiber Farm Tour 2011-2016. The tour consisted of 6-12 farms including an Outstanding in the Field dinner and International Felt Artist Janice Arnold workshop/lecture. The tour received a farmer/rancher grant from North Central SARE in 2014. With the desire to expand markets for the sale of larger amounts of Minnesota Wool, Ms. Mueller received grants from the Mary Page Family, University of Minnesota Regional Sustainable Development Partnership to survey the wool farmers, intermediaries/warehouses and manufactures of woolen products. In 2017 Ms. Mueller received the position of Senior Fellow, Endowed Chair in Agricultural Systems at the University of Minnesota, Institute for Sustainable Agriculture. Ms. Mueller's effort has been in the commercial woolen product made with Minnesota Wool. A supply chain and unit cost has been developed, and currently Minnesota companies are being contacted.

ERIKA MUHAMMAD is a wife and a mother of three gifted children, which she homeschools. During the summer months, she hosts summer camps for the neighborhood children to learn self-sufficiency skills for survival. She is adventurous, fun loving, and soft-spoken. A transplant from San Francisco, Erika, now resides in the city of Dallas. Not a traditional farmer, Erika's desire to grow food started in 2000 after her father gifted her with two tomato plants and challenged her not kill the plants. After tasting fresh tomatoes, she was hooked, propelling her desire to feed her family nutrient-dense and chemical-free foods. Facing the threat of no longer receiving fresh eggs from her friend, she was yet challenged again. Her desire to expand her operation required additional acreage. Hence, Erika continued to grind, to accomplish the above goals. Finally, she reaped the dividends of her hard work and sacrifices and began operating her own farm "BE AND IT IS HOMESTEAD", in Dallas, Texas. Erika produces soy and GMO-free pastured eggs and provides a selection of seasonal fresh fruits and vegetables, which she sells at local Farmers' Market.

HANA NEWCOMB grew up on her family farm in Northern Virginia, working alongside her three siblings and her parents and a long parade of college students and aspiring farmers. She has worked every summer of her life at Potomac Vegetable Farms, although she never thought she would be a farmer. Her husband Jon also never thought he would end up on a farm, but he has been part of the business for over 30 years now. The farm has evolved over the decades, along with its generations of farmers and is owned by Hana, her mother and Carrie Nemec (a non-family member). PVF uses organic methods but is not certified and sells at six farmers markets, two roadside stands and has a 500-member CSA. Hana is by now the chief logistics officer and strategist, the main tractor driver, and the one who makes sure there is a newsletter every two weeks. She also picks her share of vegetables. She has three grown children (not farmers) and three nephews who grew up on the farm (two are still farming). During the winter, Hana gets to do volunteer work, knit, swim, read, write, cook, and take long trips with Jon.

HIU NEWCOMB started farming in 1962 on rented ground outside Washington, DC with her husband Tony Newcomb. They grew sweet corn for small roadside stands in the Virginia suburbs. Over the next few years they added more vegetables, bought some land, built a greenhouse, sheds, and their own roadside stand. They hired college students as well as their four children to help them in the fields and sell at growers-only farmers' markets. They bought more land in Loudoun County in 1975 and currently grow about 25 acres of vegetables in both Fairfax and Loudoun counties. Hiu and her partners kept the farm going after Tony died in 1984. They now sell at six farmers' markets and our two stands and have a 500-member CSA. Her oldest daughter Hana now runs both farms with substantial help from a core of family, veteran and new workers.

KIM NIEWOLNY is an associate professor in the Department of Agricultural, Leadership, and Community Education in the College of Agriculture and Life Sciences at Virginia Tech. Her scholarship centers on the role of power and equity in community education and development with a focus on food systems change. Her work is grounded in cultural and participatory community development; critical pedagogy; action research; and sociocultural, transformative, and social movement frameworks. Dr. Niewolny holds research training and experience in qualitative research methods with special interest in discourse analysis and narrative inquiry. Current funded initiatives emphasize the political praxis of community food work, Appalachian community food security, new farmer sustainability, and farmworker care/dignity. Most recently, Kim launched the "Stories of Community Food Work in Appalachia" to create and share stories that illustrate the lived experiences of food system activists, educators, and practitioners who are connected to the broader issues of social justice and resiliency in the Appalachian region. Kim teaches several graduate courses, including *Community-based Participatory Research, Community Education and Development*, and *Food Security and Resilient Communities*. With an emphasis on service learning, Kim provides teaching leadership in Virginia Tech's undergraduate minor in Civic Agriculture and Food Systems (CAFS).

ANDREA NORTHUP is the USDA Farm to School Regional Lead for the Mountain Plains Region based in Denver, CO. She works with schools, farms and partners to get fresh, local food to schoolchildren around the 10-state region. Prior to joining the USDA, Andrea was the Farm to School Coordinator for Minneapolis Public Schools. Her career began in Washington, DC where Andrea founded and directed the DC Farm to School Network. She as degrees in Environmental Engineering and Community Health from Tufts University in Boston, MA.

DAHLIA O'BRIEN is an Associate Professor and Small Ruminant Specialist in Cooperative Extension at Virginia State University. Dr. O'Brien received her Ph.D. from the University of Maryland Eastern Shore in December of 2005. Prior to her position at Virginia State University, she served as Associate Professor and Small Ruminant Specialist at Delaware State University (DSU) for several years. In her position at DSU, Dr. O'Brien conducted research on a number of projects including the characterization of anthelmintic resistance in gastrointestinal nematodes of small ruminants in the Mid-Atlantic U.S., evaluation of natural/alternative dewormers (pumpkin seeds, ginger, garlic, papaya seeds and commercially available herbal wormers) in parasite control, determining the efficacy of goat browsing as a biological control for invasive weeds, and the use of natural breed resistance in reducing internal parasite infections in meat goats. At Virginia State University, Dr. O'Brien plans to work collaboratively in providing needs based educational workshops and applied research for small ruminant producers locally and regionally. Her interests lies in low-input small ruminant production, natural/novel means of parasite control, and assisting producers in determining on-farm parasite resistance to chemical drugs.

BETH OSMUND: In 2002, Beth Osmund and her husband Jody left corporate careers in Chicago and moved out to Ottawa, IL, to a small farm that had been in Jody's family since his mom was a young girl. They launched the first CSA in LaSalle County, growing vegetables for 50 families in 2003. In 2007 they recieved a SARE grant focused on developing a direct to consumer meat business, initially focusing on Farmer's Markets. They missed the close ties with their CSA members though, and so shifted their focus from Farmer's Markets to create the first meat CSA in the Midwest. They raise a variety of livestock as well as partnering with other farmers to deliver a year round monthly meat CSA share to the Chicagoland area.

JODY OSMUND grew up on a diversified livestock (hogs, cattle, laying hens, and sheep) and grain (corn, beans, hay, oats, and wheat) farm. He graduated high school and went off to college in the midst of the 1980s farm crisis. At that time, bright ambitious young people in farm country were encouraged to find other careers. So, he left the farm and became a professional, working first in Salt Lake City and then in the suburbs of Chicago. But, the farm was always "home". Sixteen years ago, he and his young family moved back to start their farm. A lot had changed in his years away, the farms and the machinery were bigger, much bigger; and the livestock that once dotted the landscape had virtually disappeared. Some had moved into massive confinement barns; most were gone altogether. Instead of taking on huge debt to farm grain, the Osmund's started the first vegetable CSA in LaSalle County. Livestock were added over the years and 10 years ago, the Osmund's transitioned to all livestock with the first meat and egg CSA in Illinois, and Cedar Valley Sustainable Farm CSA is still going.

MARY E. OSTAFI, Executive Director of Urban Harvest STL, cross pollinates urban agriculture, sustainability, and architecture. She founded the nonprofit Urban Harvest STL and pioneered an effort to build the FOOD ROOF, St Louis' first rooftop farm, the topic of her recent TEDx Talk. Mary has been at the forefront of green buildings for over a decade, and now drives sustainability through building-integrated urban agriculture projects that cultivate equitable access to healthy, sustainably grown food; mitigate stormwater runoff; and enhance biodiversity in cities. A strong community activist, Mary focuses on educating and engaging the community to increase resiliency in our food systems and position urban environments for climate adaptation. She holds a Master's degree in Sustainability Leadership from an acclaimed university in Sweden, is a licensed architect, LEED AP since 2003, and St Louis Business Journal 40 under 40. A seasoned public speaker, she has addressed audiences such as TEDx and multiple national conventions on the topics of sustainability, green building and urban farming.

JODY PADGHAM has worked directly with hundreds of small-scale producers, developing educational programs and written materials as well as answering questions about pastured poultry, farm financial management, organic production, co-op development and many other topics. Coordinator of the American Pastured Poultry Producers Association (APPPA) between 2001 and 2012, Jody is currently an outreach specialist at the University of Wisconsin-Madison. She was financial manager of the Midwest Organic and Sustainable Education Service (MOSES) for 16 years, and also an outreach specialist at the University of Wisconsin Center for Cooperatives. Jody has been project manager and/or editor of several books, including *Raising Poultry on Pasture, Fearless Farm Finances, Feeding Pasture-Raised Poultry, Renewing the Countryside-Wisconsin, Guidebook to Organic Certification, Organic Dairy Farming* and *Women in Charge: Tales and Teachings from our Farms*. She was editor of both APPPA Grit and Organic Broadcaster bi-monthly newsletters for many years, and has published numerous articles and done presentations on small-farm topics. Jody owns and manages a 60-acre pasture-based farm in North Central Wisconsin where she raises small flocks of sheep and organic pastured broilers. She has a Bachelor of Science degree from the University of Wisconsin-Madison College of Agriculture.

DAVID PAULK owns and operates *Sassafras Creek Farm*, a certified organic vegetable market farm in Leonardtown, Maryland. David is both a first generation and second career farmer. Prior to farming he served in the US Navy for 26 years. The farm was established in 2011 and has grown quickly each year. Year-round production includes vegetables, strawberries, watermelons, small grains and continuous no-till cover crops. Sales are split between famer's market and direct-to-store wholesale and aggregators. The farm specializes in season extension through the use of high tunnels and storage crops including; sweet potatoes, onions, carrots, beets and grains.

JOSH PAYNE is a retired high school English teacher, a corn, soy, and wheat farmer, and part-time pastor. He farms 600 acres with his 89-year old grandfather, and is committed to having a living root in the ground every day on every acre. Joining his story is his wife, Larin, and their three young children – Reina, Ella, and Jacob. Currently, he is enrolled at Central Baptist Theological Seminary, where he is working on a MDiv in Theology so he can be a farmer and not a pastor.

MARY PEABODY is an Extension Professor with University of Vermont Extension where she works in Community & Economic Development. Since 1988 she has worked in the areas of rural economic development and farm business management. She also serves as the founding Director of the Women's Agricultural Network which was started in 1994 to assist women farmers with the growth and development of profitable farm enterprises. Her research interests include the sustainability of rural communities, entrepreneurship, and the application of information technology to community and economic development. Since 2014 she has served as PI for an integrated Research and Extension project examining farmer decision-making as it relates to farm labor on small and medium-sized farms.

SILVANA PIETROSEMOLI is an animal scientist interested in sustainable animal production and low input animal production systems. She has been working as a Research Associate in the Animal Science Department of NCSU since October 2008, when she moved to the USA from her native Venezuela. Since then, she has been responsible for the outdoor swine production research and extension program at the Center for Environmental Farming Systems, where Silvana has been exploring ways to improve the sustainability of pasture pork operations. In Venezuela, her family owned a double purpose cattle farm so she understands the struggles and challenges that farmers have to face.

REBECCA POWER is Director of the North Central Region Water Network and leads a range of other water outreach programs at the University of Wisconsin-Extension. She is a proponent of a unified, One Water approach to water resource management across urban and rural communities. During her 18 years with Extension, she co-directed the Great Lakes Regional Water Program and served as a local natural resource educator in the Upper Fox and Wolf Basins. Rebecca began her career with a private consulting firm restoring savannas, prairies, wetlands in the Upper Midwest, and spent eight years with the U.S. Fish and Wildlife Service using adaptive management strategies in the restoration of savanna ecosystems. In her home watershed, she chairs the Dane County Lakes and Watershed Commission.

ELIZABETH REAVES leads sustainable sourcing strategy and implementation on behalf of the Sustainable Food Lab's efforts to support food and beverage companies on their journey to achieve sustainability goals in their agricultural supply chains. Having spent the early part of her life on her family's dairy farm in Vermont, and then later on a large organic vegetable operation, Elizabeth understands the unique role that farmers have in the stewardship of our working lands. She has worked on behalf of businesses, Trust for Public Land, Donella Meadows Institute, and US Senator Patrick Leahy. Her advanced degrees are in Community Development and Applied Economics from the University of Vermont. The Sustainable Food Lab is a global network of organizations facilitating market-based change for a sustainable food system. From peer to peer leadership networks, to global learning events, to supply chain innovation projects, to measurement tools, the Food Lab brings organizations together to help them accelerate progress towards a more sustainable food system. Since 2004, the Sustainable Food Lab has evolved in an eco-system of organizations and associations. The Lab focuses on outcomes and is neutral with respect to specific strategies, standards, or certifications. This agnosticism enables the Lab to bring insights from many different players to innovate a food and beverage supply that supports people, communities and nature.

ADAM REED is the founder and co-owner of Victory Farm in Moscow, ID. In 2012, after studying Organic Agriculture at Washington State University, he founded Moscow Urban Farm Company and began growing produce directly for local restaurants. In late 2014, Adam got a UDSA Beginning Farmer loan to purchase the land on which to build Victory Farm. Victory Farm now grows 2.5 acres of Certified Naturally Grown produce which is direct-marketed to the community through a 60-member CSA, a Farmers' Market, local restaurants, and a food co-op.

JODIE REISNER is the State Conservation Agronomist for USDA-Natural Resources Conservation Service in Temple, Texas. She received her B.S. degree in Biology/Environmental Science from University of Wisconsin and her M.S. degree in Soil Science from University of Missouri. Jodie's certifications include Certified Crop Advisor with a Sustainability Specialty through the American Society of Agronomy and Certified Professional Soil Scientist through the Soil Science Society of America. She has been active in the conservation field for over 20 years working in Wisconsin, Missouri, and Texas. She has found working with farmers has been the most rewarding part of her career. Jodie enjoys bringing many scientific disciplines together to implement conservation and regenerative agriculture across landscapes. She is currently a board member of the Southern Cover Crop Council to support the adoption of best cover crop practices in the south.

HOLLY RIPPON-BUTLER is the Land Access Program Director with the National Young Farmers Coalition, where she works with policy makers and land trusts to increase land access opportunities for the next generation of farmers. She has co-authored a guidebook for farmers designed to explain the process of partnering with a land trust to access land and organized a series of trainings for land trusts on innovative conservation tools that help protect farmland affordability for farmers. In addition to her work with NYFC, she remains involved with her family's third-generation dairy and beef farm in Upstate New York. Prior to joining NYFC, Holly worked with the American Farmland Trust and the Agricultural Stewardship Association in New York.

MOLLY ROCKAMANN, Founding Director of EarthDance Organic Farm School, is a St. Louis native but felt the coastal pull for college and remained in tropical climates until she decided her heart was in the heartland and returned to her family's roots in North St. Louis County. While away, she worked with mushroom producers in Ghana, organic rice farmers in Thailand, veggie farmers in Florida and California, and sugar cane farmers in Fiji. She has a B.A. in Environmental Studies from Eckerd College, a Certificate in Ecological Horticulture from UC-Santa Cruz, a Postgrad Diploma in Development Studies from the Univ. of the South Pacific, and a Permaculture Design Certificate from the Peace & Permaculture Center, but the land and other farmers have been her greatest teachers. Molly is dedicated to building healthy soil, preserving farmland and connecting communities to each other and the land through organic food and farming. She resides in Ferguson, Missouri, a mile and a half away from EarthDance. Molly was listed on Mother Nature Network's '40 Farmers Under 40', received a Kick-Ass Award from 52nd City, was named one of 10 Most Dynamic St. Louisans by Ladue News, and was the first recipient of the Young Food Leader award by the Natural Resources Defense Council.

RON ROSMANN along with his wife, Maria, and two of their three sons and their families farm 700 acres in western Iowa near Harlan. The farm has been certified organic since 1994. They stopped the use of all pesticides in 1983. Ron is a 1973 graduate of Iowa State University with a B.S. degree in Biology. He's a founding board member of the Practical Farmers of Iowa having served as both vice-president and president. He is a past president and board member of the Organic Farming Research Foundation in Santa Cruz, California. The Rosmann's have a diverse farming operation growing many different crops including corn, soy, small grains, popcorn, hay, pasture and diverse species of cover crops. They have 100 Red Angus mother cows, 50 sows and all of their beef and pork is certified organic. Maria markets the meat and other products through her "Farm Sweet Farm" store located on the farm. Some is also marketed through Organic Prairie. Family members also own and operate both a local foods restaurant in Harlan called "Milk and Honey" and a Farm Table procurement and delivery business. They have conducted over 40 on-farm research projects through Practical Farmers of Iowa since 1987.

ROZIE SCHLEINIG: After graduating from Rhodes College, Rozie Schleinig stayed in Memphis, TN to help launch and manage Bring It Food Hub. Homesick for snowy winters and the Rhode Island coastline, Rozie moved back to apprentice on a farm in Massachusetts. In early 2016 she joined Red Tomato as a Supply Chain Associate, where she facilitates their direct delivery program and helps to grow Red Tomato's capacity to deliver regional produce to stores and institutions throughout New England.

LANE SELMAN grew up on a citrus farm on Florida's space coast where her Sicilian great-grandparents settled in the 1920s. She has a Bachelors degree in Agronomy and a Masters in Entomology, both from the University of Florida. She moved to Oregon in 2001 and since 2005 has been an agricultural researcher at Oregon State University working with dozens of organic vegetable farmers in the PNW on collaborative research projects. In 2012, Lane created the Culinary Breeding Network to increase communication and collaboration between plant breeders, seed growers, farmers, produce buyers and chefs to improve quality in vegetables with a focus on public and independent open-source organic breeding work. She lives in Portland, Oregon.

CHARLOTTE SMITH owns Champoeg Creamery, a raw milk micro-dairy located in St. Paul, Oregon, producing raw milk, eggs and pastured poultry. After witnessing too many farmers going out of business due to not being financially sustainable, she also founded 3CowMarketing.com, an online marketing training company helping farmers across the nation learn online marketing techniques to grow a successful business. Additionally, she hosts "The Profitable Farm with Charlotte Smith" private Facebook group, a community of 4,000 farmers across the nation, focused on connecting with others to learn, share and gain support. Due to her dedication to improving the soil, animals and the people who eat their products, In 2016 Charlotte was named one of the Top 25 Most Influential Women in the World in Food and Agriculture by the non-profit, Food Tank. Charlotte is also the proud mother of a United States Marine, lives in St. Paul, Oregon on the farm with her husband, Marc, (a teacher) and her 2 daughters. You can visit Charlotte at 3CowMarketing.com or inside "The Profitable Farm with Charlotte Smith" Facebook Group.

CHUCK TALBOTT owns and operates Black Oak Holler Farm, located in Mason County, West Virginia in Appalachia's Central Forest Region. We breed and raise pigs on pasture, annual crops, and in woodlots. This unique management system reduces dependence on fossil fuels, builds organic soils, and utilizes and may improve the forests. Finishing our pigs in the woods (on oak/hickory mast) takes advantage of a perennial feedstock that influences the flavor and fat profiles of our meat. Our genetics utilize the breed characteristics of the Ossabaw and Eurasian Wild Boar, and when crossed with Farmers' Hybrid/Large Black, we maximize the meat and fat characteristics required for our own Appalachian Charcuterie - Woodlands Pork.

DR. KEIKO TANAKA is Professor of Rural Sociology in the Department of Community and Leadership Development in the College of Agriculture, Food and Environment at the University of Kentucky with a joint appointment with the Department of Sociology in the College of Arts and Sciences. Her research focuses on the role of agricultural science and technology in reconfiguring agriculture and food systems in the global context. Her current projects on beginning farmers in the Southeastern US and in Japan concern the intersection of farmers' knowledge, practices and perspectives on agricultural sustainability. Her instruction focuses on the sociological examination of global food systems and agricultural sustainability. She publishes both in English and Japanese. Her publications in English can be found in *Agriculture and Human Values*; *the Journal of Agriculture, Food Systems, and Community Development*; *the Journal of Rural Social Sciences* (or formally *Southern Rural Sociology*); and *Rural Sociology*. She has been an active member of the Sustainable Agriculture Curriculum Development Committee at the University of Kentucky and regularly takes students to Indonesia as part of an education abroad course. Dr. Tanaka received a B.A. in Sociology from Aquinas College, and M.A. and Ph.D. in Sociology from Michigan State University.

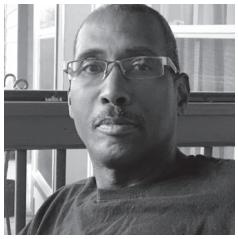
DRE TAYLOR: Founder Dre Taylor of Males to Men (M2M) Community Foundation and the Nile Valley Aquaponics 100,000 Pounds of Food Project has been urban and aquaponic farming for over 10 years in Kansas City, Missouri. Dre received a "Growing Your Community Food System" certification from Growing Power Inc. in 2011. Nile Valley Aquaponics currently produces 100,000 pounds of food in a commercial greenhouse. Nile Valley Aquaponics is a sustainable greenhouse that attract over 2,000 visitors and volunteers a year. It produces tilapia, microgreens, vegetables, wheatgrass and herbs while employing youth and members from the community it surrounds. Nile Valley breeds its own insects to feed it tilapia. Nile Valley has teamed up with architecture firm HOK to design a sleek urban agriculture center to be implemented on its current site with plans to be replicated in other cities across the country. Dre Taylor is also the founder of The KC Urban Farm Coop where they will plant 200 fruit trees and berries in Swope Park, one of the largest public parks in the county.

FRANCIS THICKE, with his wife Susan, is the owner and operator of a grass-based, organic dairy and crop farm. They process their milk on the farm and market organic dairy products through local grocery stores and restaurants. Francis grew up on a dairy farm in Minnesota and first began farming organically in 1975. Francis has a Ph.D. in agronomy/soil fertility and has served as the National Program Leader for Soil Science for the USDA-Extension Service.

JOE TOMANDL grew up on a managed grazing dairy in Medford, Wisconsin. He and his wife, Christy, were both agriculture teachers who quit their teaching jobs and purchased a small farm near Medford where he grew up. It was their dream to raise their children in the country and managed grazing is what brought them back. Currently they and their 3 kids own two—160 cow grazing operations. Joe is the Executive Director of Dairy Grazing Apprenticeship.

KATHY VOTH'S work with livestock has focused on how we can use animal behavior to make vegetation management easier and more profitable. Her 7 year research project with goats resulted in the only handbook describing how to manage goats for firebreak building to increase firefighter safety and save homes. She also invented a method for teaching cows to eat weeds that takes just 8 hours spread over 7 days. She's trained over 1,000 cows, several herds of goats and sheep and some of Ted Turner's bison to eat most of our most problematic weeds, and shares her easy to adapt techniques with farmer and ranchers at workshops and conferences.

Kathy is a publisher and editor of On Pasture, a free, weekly, online grazing magazine that translates research and experiences into practices that graziers can use to be more sustainable and profitable (http://onpasture.com). It reaches about 100,000 readers a month with up-to-date, scientifically accurate, accessible information for raising livestock on pasture.



BRENNAN WASHINGTON is co-owner of Phoenix Gardens along with his wife, Gwendolyn. Phoenix Gardens is a small diversified farm that grows produce and raises laying hens and broiler chickens. He is a graduate of the Southern University Small Farm Agricultural Leadership Institute and the University of Georgia's Advancing Georgia Leaders in Agriculture leadership program. He has served as a board member of Southern SARE, Georgia Organics, the Southern Sustainable Agriculture Working Group (SSAWG) and is the founder and outgoing Board Chair of the Georgia Farmers Market Association. Mr. Washington is currently the Southeastern Outreach Coordinator for minority and limited resource farmers for Southern SARE where he serves as the program liaison to 1890 institutions, NGOs and minority and limited resource farmers. He has recently been named as a fellow in the Business Alliance for Local Living Economies (BALLE). Mr. Washington spent many years mentoring young and beginning farmers and has served as a mentor and program manager for the Georgia Organics Farmer Mentoring Program. He regularly serves as a grant reviewer for several agricultural grant programs reviewing some $20 million in grants annually. Mr. Washington had a long career in information technology management prior to starting his farming career.

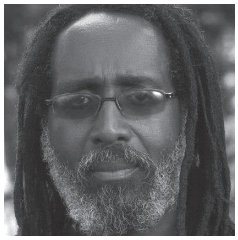
KAREN WASHINGTON: Since 1985 Karen Washington has been a community activist, striving to make New York City a better place to live. As a community gardener and board member of the New York Botanical Gardens, she worked with Bronx neighborhoods to turn empty lots into community gardens. As an advocate, and former president of the New York City Community Garden Coalition, she stood up and spoke out for garden protection and preservation. As a member of the La Familia Verde Garden Coalition, she helped launched a City Farms Market, bringing fresh vegetables to the community. Karen is board chair of Just Food and a Just Food Trainer, leading workshops on growing food and food justice across the country. In 2010, she Co-Founded Black Urban Growers (BUGS) an organization supporting growers in both urban and rural settings. In 2012, Ebony magazine voted her one of their 100 most influential African Americans in the country and in 2014 was the recipient of the James Beard Leadership Award. Since retiring from Physical Therapy in 2014, Karen is Co-owner/Farmer at Rise & Root Farm in Chester New York.

KENT WASSON owns and operates a family farm and ranch in North Central Montana. There they raise raise spring wheat, durum, lentils, peas, canola, flax and other rotational crops. They also have around 500 mother black angus cows. Kent has had the privilege to sit on the Administrative Council of Western SARE. He has been on many boards in his life including the Montana State University Advisory Council and the boards of his local airport, hospital, conservation district. He has also served on grazing boards. Kent was the founding owner of a bioenergy company called Peaks & Prairies.

SETH WATKINS: When he was 10 years old, Seth Watkins nursed a chilled calf back to health, an event that sparked his interest in farming and ultimately led him to his career today. Seth is a fourth generation steward of his family farm in Clarinda, Iowa. In 1994, he took over the family's heritage farm, which was founded in 1846. The influence of his grandmother and 4-H founder, Jessie Field Shambaugh, also played a key role in his decision to farm. Seth has a cow-calf enterprise of 600 and grows hay and corn for feed. He demonstrates agricultural land conservation for Leadership in Energy and Environmental Design (LEED) certification and allows outfitting. Seth does a large variety of conservation practices, most of which were implemented after 1998. These practices include: rotational grazing, restricted wildlife areas, riparian buffers, ponds, shallow water habitats, integrated pest management, prescribed burning, windbreak restoration, no-till, cover crops, tile, terrace, inter-seeded legumes, prairie restoration/CRP, late season calving, and row crops integrated with prairie strips. Seth is involved with the Iowa Cattleman's Association, Team Beef (Beef Council Running Team), and the Clarinda School Board. He and his wife, Christy, a consultant for Green Hills, have two children: Spencer, 11, and Tatum, 8.

ROBIN WAY grew up in Philadelphia, moved to Texas for college, and moved back to Philadelphia for a job in the Pharmaceutical Industry. There she met her husband Mark; they have three children and one grandchild. Together, they own and operate Rumbleway Farm, a small grass based farm located in Conowingo, Maryland on 62 acres. On their farm, they raise beef cattle, pigs, pastured poultry (chickens and turkeys), and rabbits. They have been farming for a total of 25 years. In 2000, Robin and Mark built an onsite processing area, and received the right to process their birds under USDA inspection. In 2001 they added a certified kitchen. They utilize their commercial kitchen to host Dinner at the Farm and cooking classes. The farm sells a variety of meat products as well as canned goods direct to customers from the on farm store. This year they raised and processed 2500 Cornish-cross chickens, 250 turkeys, 80 rabbits and 12 pigs. All of their birds are raised in free range housing systems that Robin and Mark designed. They have undertaken two SARE grants: Omega-3 Fatty Acids in Rabbits and Sustainable Livestock Farming: Promotional video and teaching tool.

CASSANDRA WILCOXEN is Macon County (IL) Soil and Water Conservation District's watershed specialist heading up the Lake Decatur Watershed Program and coordinates watershed planning and education and outreaches activities. Wilcoxen recently graduated from the University of Illinois in Urbana-Champaign with a Master of Science studying agricultural practices' influence on wildlife in the bird and pollinator communities. Her project focused on birds in cover crops and the influence of in-field and edge-of field agricultural practices on birds, butterflies, and bees. Wilcoxen's favorite part about her research was finding where agricultural conservation practices overlapped with providing habitat for wildlife. Wilcoxen is an Illinois native who grew up in rural central Illinois, where she played hide and seek with her siblings throughout the corn fields surrounding their house. She attended Southern Illinois University in Carbondale earning a Bachelor of Science in Zoology and minor in Environmental Studies. In her free time, Wilcoxen goes birding, hiking, gardens, bakes, and monitors the native bees in her flower patches. Wilcoxen's great passion is being a good steward of the environment and bringing people together to address a variety of environmental issues.



MALIK KENYATTA YAKINI is co-founder and Executive Director of the Detroit Black Community Food Security Network (DBCFSN). DBCFSN operates a seven-acre urban farm and is spearheading the opening of a co-op grocery store in Detroit's North End. Yakini views the "good food revolution" as part of the larger movement for freedom, justice and equality. He has an intense interest in contributing to the development of an international food sovereignty movement that embraces Blacks communities in the Americas, the Caribbean and Africa.

YVONNE ZWEEDE TUCKER: The second daughter of Dutch emigrees from what is now Indonesia, Yvonne Zweede Tucker was taught to read by her sister before starting kindergarten, opening doors to the wonderful world of books and exploration. Life progressed for Yvonne through grade school, high school, college and working "corporate" for an international air express company (DHL) and took a dramatic change in direction in October 1989 due to the San Francisco earthquake. Yvonne and her two Livestock Guardian dogs moved to Montana, where smaller earthquakes are *much* less annoying. Raising Spanish goats for cashmere in Montana's demanding environment transitioned to developing goats that converted undesired plants (weeds and brush) into the next well-adapted, hardy and prolific generation, in a self-sustaining and profitable manner. Yvonne and Craigh, the boy next door, married in 1995 and he added life with meat goats to his day job of teaching math and coaching. The herd which will have paid for the 220 acres of Rocky Mountain front that make up Smoke Ridge in November of 2018, after twenty-seven years of mostly joy. In spite of being disabled by Multiple Sclerosis, Yvonne now assists Craig with management tasks for the goat herd and works on behalf of the meat goat industry.

Moderators

JILL SHORE AUBURN was a National Program Leader at the USDA's National Institute of Food and Agriculture from January 1998 until her retirement in April 2017, managing grant programs for research and extension on sustainable agriculture, local/regional food systems, community development, and beginning farmers and ranchers. From 2009 to 2013 she was on detail to the USDA Office of the Chief Scientist, where she was Senior Advisor for agricultural systems and sustainability and then acting director. Prior to that detail she spent ten years directing the Sustainable Agriculture Research and Education (SARE) grant program for the USDA agency that is now the National Institute of Food and Agriculture. Before joining USDA, she was associate director of the University of California's Sustainable Agriculture Research and Education Program, where she developed the information program including one of the first university web sites on sustainable agriculture. While at UC SAREP she led the national team that developed the information network for the SARE program (now SARE Outreach) and co-led the Professional Development Program of Western SARE. Her academic background is in agricultural systems analysis and ecology, with a Ph.D. from the University of California at Davis and M.A. and B.A. from Miami University.

ANDREA BASCHE is an Assistant Professor in Cropping Systems at the University of Nebraska-Lincoln's Department of Agronomy and Horticulture. Her research explores climate adaptation through more diversified agricultural systems, as well as soil health, cover crops and the human and policy dimensions of decision-making. She previously worked as a research fellow with the Union of Concerned Scientists and a AAAS Science and Technology Policy Fellow with USDA-NIFA. She has a Ph.D. in sustainable agriculture and crop production and physiology from Iowa State University.

DEAN BAAS is an Extension Educator in Sustainable Agriculture for Michigan State University Extension. Dean is involved in cover crop, soil health and organic agriculture research and education. Farmers and commodity groups are an integral part of his projects and programs. He is a member of the Midwest Cover Crops Council Executive Committee. He is the Sustainable Agriculture Research and Education (SARE) Coordinator for the state of Michigan. He has a Ph.D. in Environmental Geosciences and Biosystems and Agricultural Engineering and a B.S. in Agricultural Engineering from MSU. Prior to returning to MSU for graduate study, he had a 20-year career with the Kellogg Company.

DR. NELSON DANIELS is an Extension Program Specialist with Agriculture & Natural Resources unit of the Prairie View A&M University Cooperative Extension Program. In this role, he work focuses on small farm financial management and sustainable agriculture. He has served in several positions with Texas Extension. He has served in both Extension agent and administrative position with the Prairie View A&M University Cooperative Extension Program and with Texas A&M AgriLife Extension Service. Additionally, he work as an Economist with the US Agency for International Development in Sri Lanka and taught in the Department of Horticulture at Houston Community College. He received his BS and MS degrees from Prairie View A&M University and his Ph.D. from Texas A&M University.

CAROL DELANEY, M.S., Ruminant nutrition (Cornell University, New York, USA). She is currently the Coordinator of the Farmer and Partnership grant programs for the Northeast Sustainable Agriculture Research and Education (SARE), a NIFA/USDA on-farm research grant program. Previously, she was the Small Ruminant Dairy Specialist, University of Vermont, USA, (1998–2008) Department of Animal Science and the Center for Sustainable Agriculture. Faculty and Farm Manger at Sterling College, Craftsbury, Vermont, USA (1989–2003). She has many years of experience owning and operating farm and food businesses, working on livestock farms, and raising dairy, meat and draft goats. She published in 2012 A Guide to Starting a Commercial Goat Dairy. She has served as a Farmer-to-Farmer volunteer as a goat and sheep educator, funded by USAID and administered through the Winrock International in September 1-14, 2012, Finkolo Ganadougou, Mali and April 1-19, 2013, Tacuba, El Salvador. She is currently pursuing a Ph.D., part-time, in the Department of Plant and Soil Sciences, University of Vermont, Burlington, Vermont, USA. Thesis topic: Optimum dietary fiber level for dairy goats.

COLETTE DEPHELPS is a Community Food Systems Area Extension Educator with the University of Idaho. Based in Moscow (north Idaho), Colette's current work includes expanding markets for small farms, beginning farmer education, food system development, on-farm food safety education and farm-to-school. She has 24 years' experience working with farmers, non-profits, government agencies, Washington State University, and the University of Idaho to develop and offer small farm and community food systems programs in the Palouse region of Idaho and Washington. Colette serves on Western Center for Risk Management Education Advisory Council and several community initiatives including the City of Moscow Farmers Market Commission, the Moscow Food Co-op Board of Directors, the Palouse-Clearwater Food Coalition and the Palouse Prairie Charter School Wellness Committee. Prior to working with University of Idaho Extension, Colette co-founded and worked for Rural Roots, a Moscow-based small farm non-profit organization.

LELAN DIXON is a native of Baton Rouge, Louisiana. She attended Southern University A&M College and Florida A&M University earning a Bachelor's and Master's degree in agricultural and plant sciences respectively. Throughout her career she has maintained a passion for agricultural based outreach, sustainability, and global food security. In the past, she worked at the University of Florida extension service serving as a Commercial Horticulture Extension Agent. During her career she gained additional experience working for the USDA-Natural Resources Conservation Service (NRCS) as a Soil Conservationist, Training Specialist for the University of Hawaii, and as a Nutrient Management Specialist with the Maryland Department of Agriculture. Currently, Lelan is a Program Specialist with the USDA-National Institute of Food and Agriculture (NIFA) Institute of Food Production and Sustainability, Division of Agricultural Systems in Washington, DC. She serves as the primary program specialist for the Sustainable Agriculture, Research and Education (SARE), Small and Medium Sized Farms, AgrAbility, and Youth Farm Safety Education and Certification national programs. Lelan is committed to serving the agriculture community in the areas of sustainability, farm safety, and opportunities for current, beginning and veteran farmers.

DR. JULIE E. DOLL: Since 2009, Dr. Julie E. Doll has been the Education and Outreach Coordinator for the Long-term Ecological Research Project at the Kellogg Biological Station, Michigan State University. She develops programming for various stakeholders—including farmers, Extension Educators, policy makers, teachers, students, and the general public—on ecology and field crop agriculture, with an emphasis on climate change. She also conducts social science research on how agricultural professionals, including farmers, view and experience climate change and various aspects of sustainable agriculture. Previously, she worked as a Postdoctoral Research Associate and Graduate Research Assistant in the Agronomy Department at the University of Wisconsin-Madison. Her dissertation research investigated agronomic, ecological, and social aspects to using native prairie grasses in grazed pastures. As a Peace Corps Volunteer in Paraguay from 2000–2002, Julie

fell in love with working with famers, grasslands, and meeting the needs of people through improved agricultural production and care for the environment. She is passionate about strengthening the linkages between people, agriculture, and the environment.

ANNIE DONOGHUE is the Research Leader for the Poultry Production and Product Safety Research Unit, Agricultural Research Service, United States Department of Agriculture and Research Professor within the Center of Excellence for Poultry Science at the University of Arkansas in Fayetteville Arkansas, USA. She received her degrees in Zoology (BS) from San Diego State University, Animal Science (MS) from Texas A&M University and Physiology (Ph.D.) from the F. Edward Hebert School of Medicine, Uniformed Services University of the Health Sciences. After a postdoctoral fellowship at the Smithsonian Institution, she joined ARS as a research scientist in Beltsville MD. In 2000, she moved to Arkansas to serve as Research Leader for the Fayetteville Unit, which focuses on sustainable poultry production systems with a focus on organic production and developing environmentally friendly methods to utilize manure. Her research focuses on developing alternatives to antibiotics for reducing foodborne pathogens and diseases in poultry, developing novel probiotics and utilization of plant-derived antimicrobials. She has a special interest in working with military veterans interested in agriculture. In collaboration with the University of Arkansas, Division of Agriculture; the National Center for Appropriate Technology; the Center for Agroforestry at the University of Missouri-Columbia, Missouri and the Farmer Veteran Coalition, she helped developed programs that support veterans interested in farming through workshops, internships, research and training opportunities. Dr. Donoghue has published more than 230 peer-reviewed manuscripts, patents, invited proceedings or book chapters. She received numerous honors including the U.S. Presidential Early Career Award for Scientists and Engineers; the HyLine International Research Award; and the National Excellence in Technology Transfer Award from the Federal Laboratory Consortium. She serves on the Administrative Council for Southern Sustainable Agriculture Research and Education (SSARE).

JUSTIN DUNCAN has a BS in Agronomy from Prairie View A&M University, an 1890 Land Grant Institution, and an MS in Plant Breeding from Texas A&M University. He's spent years figuring out the nuts-and-bolts of successful organic farming in the humid South, concentrating mainly on sweet potatoes, strawberries, niche market ethnic crops and drought mitigation techniques. He formerly served as the Houston region director of the Texas Organic Farmers and Gardeners Association and has strong rapport with organic farmers in Eastern Texas. He now works with the National Center for Appropriate Technology as a Sustainable Agriculture Specialist where he helps farmers around the country with their crop and pest issues and develops publications on sustainable agriculture topics.

KEVIN ELLIS is a sustainable agriculture specialist for the National Center for Appropriate Technology who has written and revised publications covering a variety of topics concerning sustainable and organic poultry production. His focus is on the ATTRA program which provides free technical assistance to farmers across the U.S. He has given presentations and worked on projects to directly support the needs of farmers in Iowa and Texas. Kevin holds a bachelor of science degree in Poultry Science from Texas A&M University and has successfully completed the organic livestock inspector training through the International Organic Inspectors Association.

JESSICA GOLDBERGER is an Associate Professor of Rural Sociology in the Department of Crop and Soil Sciences at Washington State University. Dr. Goldberger specializes in the sociology of agriculture and food systems. Her research focuses on the sources of agricultural knowledge; the adoption and diffusion of agricultural innovations; and the ways in which agricultural beliefs, choices, and practices affect community well being, sustainability, rural quality of life, food security, and the environment. Current research topics include the adoption of biodegradable plastic mulches by specialty crop growers and values-based quinoa supply chains. Most of Dr. Goldberger's work is

conducted as part of multi-disciplinary, multi-institutional, and integrated (research, education, and outreach) teams. Dr. Goldberger is the current president of the Agriculture, Food, and Human Values Society (AFHVS) and past chair of the Rural Sociological Society's Sociology of Agriculture and Food Research and Interest Group (SAFRIG). She has served as the Rural Sociology Representative on the Administrative Council of the Western Sustainable Agriculture Research and Education Program (WSARE) since 2012. Dr. Goldberger received her M.S. (Rural Sociology) and Ph.D. (Sociology) from the University of Wisconsin-Madison.

DR. SANJUN GU is the Extension Horticulture Specialist and SARE co-coordinator at the Cooperative Extension Program of North Carolina Agricultural and Technical State University. His areas of expertise and interest include organic and conventional vegetable and small fruit production, vegetable grafting, season extension with low and high tunnels, and plant tissue culture and plant breeding. He supervises graduate students and teaches courses in the Urban and Community Agriculture Program. Gu's research goal is to increase on-farm profitability and environment stewardship of target audience, the small, limited-resource farmers in North Carolina. His current focus is on vegetable grafting and season extension techniques, both organic and conventional, for vegetable and small fruit production. He conducts applied research on high tunnel cover crops and cultivar evaluations such as for heirloom tomato, bell pepper, eggplant, salad greens, strawberry, and ginger.

MARGO HALE is the Southeast Regional Director for the National Center for Appropriate Technology (NCAT) and also serves as a Sustainable Livestock Specialist for NCAT's ATTRA Sustainable Agriculture program. Since 2011, Margo has led NCAT's efforts to train military veterans interested in agriculture through Armed to Farm, NCAT's sustainable agriculture training program for military veterans. She has worked in the fields of sustainable livestock production, beginning farmer training, farmer outreach and education, and regional sustainable agriculture outreach. Margo has extensive experience in developing and implementing farmer trainings, has written dozens of sustainable livestock production publications, manages farm to school efforts through FoodCorps Arkansas, and has given many presentations and workshops throughout the country. She has a B.S. in Animal Science and a M.S. in Agricultural and Extension Education from the University of Arkansas, is a member of the American Consortium for Small Ruminant Parasite Control, and serves on the Arkansas Sustainable Agriculture Research and Education (SARE) Professional Development Program Advisory Board. Margo, her husband Josh, and their two daughters also raise livestock and vegetables on a small farm in Northwest Arkansas.

MARY HENDRICKSON has spent 15 years working to create local food systems in the state of Missouri through University of Missouri Extension. She has focused on understanding the changes taking place in the global food system and helps farmers, eaters, and communities create profitable alternatives. She has worked extensively with community groups to increase the amount of fresh, flavorful and nutritious food available by providing technical assistance on marketing, business planning, feasibility studies, policy, food safety and consumer preferences to farmers and community groups. She participated as an advisor in the creation of the Greater Kansas City Food Policy Coalition, and serves as a technical advisor for the Missouri Convergence Partnership, a group of funders devoted to changing policies and environments to encourage Healthy Eating and Active Living. Hendrickson currently serves as the Undergraduate Advisor Chair in Sustainable Agriculture and teaches courses on sustainable food and farming systems at MU.

MIKE HOGAN is an Extension Educator and Associate Professor with Ohio State University Extension. Hogan also serves as the statewide Sustainable Agriculture Co-Coordinator for OSU Extension and is also the Ohio Co-Coordinator for the USDA SARE Program (Sustainable Agriculture Research and Education). Hogan's work focuses on urban agriculture and urban food system development and small farm issues such as alternative agriculture, direct marketing, and local food systems. Hogan has been highly involved in faculty governance at OSU, currently serving a two-year term as Chair of Faculty Council. In this role Hogan serves as one of four faculty leaders who work directly with the President, Provost, and other university leaders on academic and educational policies in order to foster shared governance of the institution. Hogan has also served as University Senator, Chair of Faculty Compensation and Benefits Committee, member of Faculty Cabinet; member of the President's and Provost's Council on Sustainability and is a current member of the Athletic Council where he chairs the Finance and Facilities Committee. Hogan served a term as President of the National Association of County Agricultural Agents and has served on the national board of the Joint Council of Extension Professionals.

DR. SHOSHANAH INWOOD is a rural sociologist in the School of Environment and Natural Resources at The Ohio State University. Her research and Extension program focus on efforts to create community and economic development through food and agriculture, and how household level issues such as health insurance and child care affect efforts to grow the next generation of farmers. Outside of acadamia, Shoshanah has worked as the Director of the Office of Sustainable Agriculture at the Ohio Department of Agriculture, and was a beginning farmer in Northeast Ohio.

SHELDON JONES is the Chief Operating Officer of the Soil Health Institute. Jones brings over 30 years of experience to the Institute, including a balance of private sector, non-profit and public service experience. Prior to joining SHI, he served as Vice President of the Farm Foundation, from 2008 to 2016, where he oversaw the Foundation's financial operations and project management activities. His public service experience involved service as deputy commissioner of the Colorado Department of Agriculture, 2004-2008. From 2002 until 2004, he was executive vice president of the Agri-Business & Water Council of Arizona, the agricultural water and power membership organization. From 1997 until 2002, he was director of the Arizona Department of Agriculture. During his term, he was active in the National Association of State Departments of Agriculture, serving as president of the organization in 2002. Sheldon worked in the agriculture banking industry for 14 years before beginning his career in government service. A 4th generation Arizonan, Sheldon grew up on his family's cow-calf ranching operation in central Arizona and assisted in managing the ranch until its sale in 1998. He earned his Bachelor's and Master's degrees in Agribusiness Management at Arizona State University.

DEBI KELLY is the University of Missouri Extension Horticulture/Local Food Specialist in Jefferson County since 2014. In 1994, Debi joined MU Extension, working as the Missouri Alternatives Center Administrative Assistant and in 1996 became the Project Manager. She was also the Missouri Sustainable Agriculture Co-Coordinator for the North Central Region SARE program from 2007 to 2014. She facilitated SARE supported educator professional development in sustainable agriculture in Missouri, and promoted other SARE research and education opportunities. She was leading author for the successful curriculum *Grow Your Farm,* which guides participants through 8 classroom sessions and 2 farm visits enabling them to make decisions about their farming enterprises. Kelly is also co-author of a new curriculum entitled "Selling Local Foods." Debi received a BS in Horticulture and MS in Vocational Agricultural Education from the University of Missouri.

KATHERINE KELLY grew up working on her neighbor's row crop and livestock farm outside of Wichita and became a backyard and community gardener when she moved to the Twin Cities and then Boston in the eighties and early nineties. She started her farming career as a field worker on organic farms in 1991 in the Boston area. She moved back to the Midwest in late 1996, where she started and ran Full Circle Farm for eight years. In 2005, she co-founded the Kansas City Center for Urban Agriculture, now Cultivate Kansas City. She has worked professionally since the early 1980s with grass roots community organizations in the Twin Cities, Boston, and Kansas City, doing program management, fundraising, marketing, financial management, and organizational development consulting. She co-founded the Growing Growers Training Program and the Farmers Community Market at Brookside.

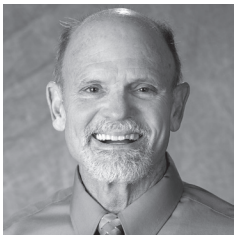
LAURA R. LEWIS is leader of the WSU Food Systems Program and an Associate Professor in Community and Economic Development. Dr. Lewis has expertise in centers of origin and domestication of agricultural species. Her programs and research focus on agrobiodiversity, agricultural education, and equitable access. Laura has a Ph.D. in geography from the University of California, Davis, where she studied pearl millet biogeography and genetic diversity of African cropping systems. She received her B.S. in agriculture from Washington State University. Upon completion of her B.S., she served as a Peace Corps Volunteer in Niger, West Africa with the African Food Systems Initiative program. Before returning to WSU, Lewis was Assistant Professor of Biogeography at the University of Maryland, Baltimore County. Dr. Lewis has taught several college courses, including International Agricultural Development, Physical Geography, Biogeography, Advanced Biogeography, Human Ecology of Agriculture, and Research Methods for Graduate Students. Laura continues to be an active instructor in Food Systems – lecturing and presenting on various topics across the food system spectrum, with particular focus on beginning farmer education and utilization of agrobiodiversity.

WAYNE MARTIN was raised on a farm in southeast Iowa. There, his family grew the standard crops of corn, soybeans, alfalfa, and raised pigs, sheep and fed cattle, plus broilers for their own consumption. Wayne farmed for several years after high school, but then had other interests that needed to be explored. He attended the University of Washington in Seattle for a degree in Political Science. Wayne then served with the Peace Corps in Ecuador, where he worked as an Extension Educator in livestock production. Afterward he worked for the Peace Corps in recruitment for several years. Then he went to the University of Minnesota, as Coordinator of the Alternative Swine Production Program, which eventually was expanded into the Alternative Livestock Systems Program he now leads. Wayne organizes and presents workshops on pigs, poultry, sheep and goats throughout the state. He has traveled to and given workshops or provided consultation in Bulgaria, Poland, China, and Jamaica.

DR. M. RAY MCKINNIE is the Dean/1890 Extension Administrator for the College of Agriculture at Virginia State University; having begun his tenure in December 2016. Prior to his service as Dean/Administrator, he served previously as Interim Dean/1890 Extension Administrator and as Assistant Extension Administrator for Programs. McKinnie received his B. S. degree in Animal Science from North Carolina A&T State University in 1976 and holds the Master's and Ph.D. degree, in Animal Science/Reproductive Physiology, from The Ohio State University (1978) and North Carolina State University (1987), respectively. As an extension specialist and researcher, the vast percentage of his time was devoted to the development of technologies and resource information for use with small and part-time farmers, and farmers with limited resources in North Carolina and the Southeast. As an administrator, he has been committed to building strong solid organizations focused on hiring productive people, developing high quality/top tier educational programs/products and the utilization of cutting edge technology in the design and delivery of them. He served as the 2009/2010 Chair of ECOP and is a graduate of both the Food Systems Leadership Institute Program (Class III) and the National Extension Leadership Development Program (NELD-Class V).

FABIAN MENALLED is a Professor of Weed Ecology and Management at Montana State University. Fabian received his Ph.D. in 1996 from the University of Massachusetts and a B.S. in 1985 from the University of Buenos Aires, Argentina. Fabian's research and extension activities focus on integrated management of agricultural weeds, understanding the mechanisms conditioning the abundance and distribution of annual and perennial weeds in agricultural systems, developing alternative approaches to manage herbicide resistance, and weed management in conventional and alternative cropping systems. Starting in Fall 2018, Fabian will be the Regional Coordinator of the Western SARE Program.

ZELALEM MERSHA is Assistant Professor in Plant Pathology at Virginia State University (VSU) Agricultural Research Station. His research and outreach goal is increasing productivity and sustainability of specialty crop production for the small and limited resource farmers in Virginia by promoting eco-benign methods of disease management. Just before moving to VSU, Zelalem served as Research Assistant Professor and State Extension Specialist in Plant Pathology at Lincoln University (LU) in Missouri. He conducted research on vegetable disease management and spearheaded outreach efforts while serving gardeners, farmers, educators and students in Missouri. During his stay at LU, Zelalem offered MO-SARE sponsored statewide trainings and organized workshops in organic conferences. Monitoring, identification and management of vegetable and fruit diseases was the major theme of many of his research and outreach endeavors. Zelalem participated and served in many regional efforts including but not limited to the Great Plains Growers Conference, Midwest Vegetable Production Guide and North-Central IPM. Zelalem earned his MSc. and Ph.D. from Leibniz Universität Hannover in Germany with a research area that focused on epidemiology of plant diseases. Born and raised from a farming family in Ethiopia, Zelalem has spent a decade of his professional career helping subsistence based small farmers in Africa.



A. LEE MEYER is a professor in sustainable agriculture and agricultural economics at the University of Kentucky, with a Ph.D. from Purdue. His professional work is primarily extension, and has been targeted toward farmer-focused marketing, including beginning farmer training, direct marketing of meat products, farm transitions and organic corn. He taught Global Food Issues until 2015, guest lectured on world food issues ("how can the world feed itself sustainably") and the role of livestock systems in sustainability. Lee has worked on long term projects in Thailand and Poland and shorter projects several other countries. Lee chairs UK's undergrad Sustainable Ag major. At the University level, he chairs the Faculty Sustainability Committee, is part of the Peace Studies committee and is former co-chair of the UK President's Sustainability Advisory Committee. With SARE, Lee serves as liaison to the Land Grant Universities in the southern region. Lee is married with three adult children and five grandchildren – all living in Kentucky. From a community perspective, he's chaired the Lexington Parks Board and serves on the boards of the Community Farm Alliance and WildOnes (native plants). Gardening, biking, playing with grandkids, cooking and eating good food with friends are some of the ways Lee has fun.

BETH NELSON is the Regional Coordinator for the twelve-state North Central Region of the USDA's Sustainable Agriculture Research and Education program. NCR-SARE offers six different grant programs, and Beth coordinates the Research and Education, Graduate Student and Partnership grant programs. The NCR-SARE program is hosted by the University of Minnesota, and Beth is on the faculty in the Bioproducts and Biosystems Engineering Department. Beth began working with SARE in 2004 as the Sustainable Agriculture Coordinator for Minnesota, while she was Associate Program Director at the Minnesota Institute for Sustainable Agriculture (MISA). In her time at MISA, she oversaw the development of educational materials in key areas of sustainable agriculture, including editing the guide co-published with SARE, "Building a Sustainable Business". She earned her Master's degree in crop physiology at Purdue University and her Ph.D. at the University of Minnesota in plant physiology.

NINA PRATER works for the National Center for Appropriate Technology (NCAT) in Fayetteville, Arkansas as Outreach Coordinator for the Gulf States Regional office and as a Soil Specialist for NCAT's ATTRA Sustainable Agriculture Information Service. Nina has a M.S. in Soil Science from the University of Arkansas, and a B.A. in Environmental Science and English from Hobart and William Smith College. She and her family raise goats, cattle, and hogs in Cedarville, AR, using adaptive grazing management systems, and she is passionate about implementing practices on their operation that build the soil's health to make the land even more productive, diverse, and resilient with every passing year.

ANDY PRESSMAN serves as the Director for the National Center for Appropriate Technology's (NCAT) Northeast Regional Office, located in Keene, NH. Andy has an MS degree in Sustainable Systems Design/Agroecology from Slippery Rock University and he has over 15 years' experience in market farming and in managing diversified organic farms. Through NCAT's ATTRA Program, Andy provides technical assistance to farmers and educators in the fields of small-scale intensive crop production, tools & equipment for the small farm, whole-farm planning, and local food systems. He and his family also operate Foggy Hill Farm, a community farm and CSA located in Jaffrey, New Hampshire.

DANIEL PRIAL: A recent addition to the NCAT team, Daniel Prial has been the Community Food and Outreach Specialist for NCAT's Northeast Office since December 2017. Before that, he was a private consultant helping organizations plan, implement and evaluate outreach programs. Prial earned a BA in Peace and Conflict Studies and an MS in Environmental Studies. He spent two years in Senegal, West Africa with the Peace Corps and four years at the John Muir National Historic Site with the National Park Service. Since 2014, he has been building a life in Keene, NH and working in the fields of land conservation and food system development. When not working, Prial enjoys hiking and camping with his wife and dog, or planning the homestead where they hope to raise a family.

DAVID REDHAGE was raised on a beef cattle farm in eastern Missouri and has worked for the Kerr Center for Sustainable Agriculture located in eastern Oklahoma since 1993 after receiving an M.S. in Agricultural Economics from the University of Missouri-Columbia. He became President of the Kerr Center in 2016. David is also the program manager for the USDA's Sustainable Agriculture Research and Education Program Professional Development Program, Southern Region (SSARE PDP) which provides training grants in the Southern SARE region and works with the thirteen southern states, Puerto Rico and the Virgin Islands on sustainable agriculture. He has been instrumental in setting up various riparian area management demonstrations, forestry projects and pollinator conservation projects on the Kerr Center Ranch as well as developing educational training programs and writing for the Kerr Center website and newsletter.

LEE RINEHART is an agriculture program specialist for the National Center for Appropriate Technology (NCAT), where he serves the Northeast and Mid-Atlantic regions. He writes publications and provides technical assistance on sustainable agriculture to farmers and ranchers through the USDA-funded ATTRA Sustainable Agriculture Program. Lee has published and lectured on sustainable agriculture nationally, focusing on soil, agronomy, livestock, grazing management, and organic production. A graduate of Texas A&M University with a BS in animal science and an MEd in agricultural education, Lee has been a cattle ranch manager in Central Texas, an Extension Educator in Texas and Montana, and an organic certification educator in Pennsylvania. He currently serves in the Navy Reserve and lives in Dallas, Pennsylvania, where he enjoys reading, writing, and sailing.

THEA RITTENHOUSE has MS in Community Development and a specialization in Food Systems from the University of California- Davis. She is a sustainable agriculture specialist with NCAT/ATTRA in Davis, California. For the past ten years she has worked in many capacities with farmers, farmworkers, school garden programs, farm to school programs and community food security projects. She has conducted research and written publications related to food systems and farm labor. She was raised on a farm in the Midwest and is the co-owner of an organic farm in Yolo County.

THOMAS SCHROEDER is a Sustainable Agriculture Specialist with the National Center for Appropriate Technology. Thomas has a Bachelor of Science degree in Agriculture from Texas State University in San Marcos, TX and a Bachelor of Arts degree in Anthropology from Marquette University in Milwaukee, WI. Thomas has over 10 years working in restaurant and grocery store production kitchens as a head chef before making the jump to field agriculture production. Before coming to NCAT, Thomas worked for My Father's Farm, a certified organic wholesale vegetable farm in Seguin, TX; and most recently as the field manager for Green Gate Farms, a certified organic multi-species, multi-outlet farm in Austin, TX. Thomas loves to spend weekends working on his family's cow-calf ranching operation outside of Abilene, TX and he is currently living in Austin, TX with his wife, two sons, chickens, ducks and dog.

DR. RYAN STOCKWELL is the Director of Sustainable Agriculture for the National Wildlife Federation. In that role, he leads the cover crops program including policy development, research coordination, and farmer champion communication training and other strategies that solve barriers which inhibit farmers from adopting soil health practices that provide production benefits including weed management, nutrient retention and creation, soil protection, pest management through biodiversity, and overall production risk reductions while also providing a number of environmental benefits including reduced water pollution, increased carbon sequestration, and improved wildlife and micro-organism habitat. Dr. Stockwell has a Ph.D. in history from the University of Missouri, a Master's in History from Miami University and a Bachelor's degree in Social Change and Development from the University of Wisconsin-Green Bay. In his spare time he farms near Medford, WI using no-till cover crop methods. He serves on the North Central SARE (Sustainable Agriculture Research and Education) Administrative Council and is also a board member for the Midwest Cover Crops Council.

SAMI TELLATIN is an extension associate and project manager with the Sustainable Agriculture Research and Education Program (SARE) and University of Missouri-Extension. She works to review and synthesize existing data documenting the impacts of cover crops on soil loss, nutrient loss, water infiltration, and soil organic matter in agricultural production systems, and to use this data to create educational resources for the general public. Sami also worked to organize SARE's national "Our Farms, Our Future" conference to be held in April 2018, and enjoys the lively and inspiring discussions the conference's theme insights. She has a B.S. in Biological Engineering from the University of Missouri-Columbia, has experience working on organic farms in St. Louis and Costa Rica, and currently works remotely in Oregon.

ANN THRUPP Ann Thrupp is the Executive Director of the Berkeley Food Institute at the University of California, Berkeley, which strives to transform food systems, to promote sustainability, justice, diversity, and health. Ann has extensive experience, as a pioneer in sustainable and organic agriculture, agroecology, food justice, food systems and sustainable business, through research, education, policy, and farming. She has held leadership positions in non-profit organizations, government, academia, and as a practitioner and educator in the field. From 2003-13, Ann was Manager of Sustainability and Organic Development at Fetzer and Bonterra Vineyards, and

Managing Director for the California Sustainable Winegrowing Alliance. Before that, Ann worked with the Environmental Protection Agency's Agriculture Initiative, and was Director of Sustainable Agriculture at World Resources Institute for a decade. She has also worked as a consultant for a diversity of organizations and businesses. Ann has a PhD and MA from Sussex University and a BA from Stanford University, and over 75 publications. She served on a Scientific Advisory Committee of the CA Department of Food and Agriculture and on two committees of the National Academy of Science, and is a graduate of California's Agriculture Leadership Program. She is fluent in Spanish, is an avid runner and also enjoys gardening, and creative writing.

MR. ALAN WEBER is a founding partner of MARC-IV, a consulting company that fosters the development of biobased innovations that benefit agricultural and enhance our environment. Active with biodiesel commercialization activities since 1991, Weber assisted with the establishment of the National Biodiesel Board's (NBB) Washington, DC office in 2006-07 and continues to provide economic & technical support to their efforts. He was appointed by the U.S. Secretaries of Agriculture and Energy to serve on the Biomass Research & Development Initiative Technical Advisory Committee in 2012. In addition to his activity with MARC-IV, Weber is actively engaged with the management and operation of his family's farm in central Missouri.

Weber is a recipient of the 2007 National Biodiesel Board's Outstanding Service Award, has served as President of the University of Missouri College of Agriculture, Food, and Natural Resources Ag Alumni Association Board and President of the Agricultural Leadership of Tomorrow Foundation. He completed his undergraduate and graduate training in agricultural economics at the University of Missouri.

NANCY WILLIAMS has engaged in agriculture since elementary school. Her family raised most of the produce they consumed; at one time maintaining as many as six gardens. In addition to achieving success with FFA competition teams, Nancy earned scholarships to study Horticulture. She earned a Bachelor of Science degree at Louisiana State University then completed coursework for a Master of Science degree in Weed Science with a minor in Plant Pathology at Cornell University. Nancy has diverse experiences in agriculture, from serving as an agronomist for local farmers and consultants in a Fortune 500 corporation to grassroots organizing and management for nonprofit community organizations. Nancy served in an IT leadership role for over 14 years with Boys & Girls Clubs of the Midlands in Omaha, most recently as Chief Information Officer, where she led award winning programs, increased technology integration and supported improved organizational outcomes. In 2010 Nancy co-founded then later served as a board member at No More Empty Pots, a nonprofit supporting the development of local food systems through self-sufficiency of people and economic resilience of communities. Nancy began her role as CEO of No More Empty Pots in January 2016. Nancy also serves on local, state, and regional community development, sustainable agriculture and nonprofit boards. With three children as college graduates and one daughter in her senior year of college, Nancy spends a lot of time sharing her passion for good food, leadership, personal strengths and exceptional outcomes with diverse audiences.

Exhibitors

The following organizations are exhibitors at the conference. We thank them for their attendance and support of this important event for sustainable agriculture!

At the time of printing this program, the list of exhibitors was as follows:

AMERICAN FARMLAND TRUST
Jennifer Filipiak | jfilipiak@farmland.org

AMERICAN NATIONAL
Carrah Daley | carrah.daley@americannational.com

CENTER FOR AGROFORESTRY
Gregory Ormsby Mori | ormsbyg@missouri.edu

CENTER FOR INTEGRATED AGRICULTURAL SYSTEMS, UW-MADISON
Cris Carusi | cecarusi@wisc.edu

CENTER FOR RURAL AFFAIRS
Kristin Bailey | kristinb@cfra.org

FAMILY FARM ACTION
Jake Davis | jake@farmaction.us

FARM BEGINNINGS COLLABORATIVE
Sheri Doye | sheri@learngrowconnect.org

GRASSLAND OREGON
Jerry Hall | jerryhall@grasslandoregon.com

GREEN COVER SEED
Keith Berns
keith@greencoverseed.com

LINCOLN UNIVERSITY
Jaime Pinero | pineroj@lincolnu.edu

MIDWEST COVER CROPS COUNCIL
Anna Morrow | annamorrow@purdue.edu

MIDWEST ORGANIC AND SUSTAINABLE EDUCATION SERVICE (MOSES)
Bailey Webster | bailey@mosesorganic.org

NATIONAL FARMERS UNION
Abby Ferris
aferris@nfudc.org

NATIONAL YOUNG FARMERS COALITION
Holly Rippon-Butler | holly@youngfarmers.org

NATURAL RESOURCES DEFENSE COUNCIL
Arohi Sharma | asharma@nrdc.org

NATURAL SUSTAINABLE AGRICULTURE COALITION (NSAC)
Paul Wolfe | pwolfe@sustainableagriculture.net

PURDUE EXTENSION/FOODLINK
Roy Ballard | rballard@purdue.edu

REGIONAL INTEGRATED PEST MANAGEMENT CENTERS
Steve Elliott | sfelliott@ucanr.edu

SOIL HEALTH INSTITUTE
Sheldon Jones | sjones@soilhealthinstitute.org

THE NATURE CONSERVANCY
James Cole | james.cole@tnc.org

UNION OF CONCERNED SCIENTISTS
Tali Robbins | trobbins@ucsusa.org

UNIVERSITY OF COLORADO
John Wiener | john.wiener@colorado.edu

USDA FOREST SERVICE NATIONAL AGROFORESTRY CENTER
Richard Straight | rstraight@fs.fed.us

USDA NRCS
Brad McCord | brad.mccord@mo.usda.gov

XERCES SOCIETY
Rae Powers | raeann.powers@xerces.org

Environmental Impact of the Our Farms, Our Future Conference

The conference organizers believe this event has many merits, but we also recognize the importance of acknowledging our environmental impact in hosting it. The emissions generated by the transportation of our 900+ attendees to attend the conference, combined with the energy and water used and waste generated during the conference proceedings have an impact on the natural environment. While we cannot calculate the entire footprint of the conference, we are mindful of our impact and have taken small steps to reduce environmental harm.

- Instead of pre-stuffing bags of printed materials for each attendee, we have opted to allow attendees to select the materials they wish to have. This has allowed us to print and waste less material.
- We selected a central area of the country for the conference location, so that many conference attendees might have the option of driving, rather than flying. We realize it is not possible for everyone to drive, but we were mindful of selecting a centrally located site for the conference in the hopes that we could reduce air traffic emissions.

We are thankful to work with an environmentally conscious business to host the conference, as the Hyatt Regency St. Louis at the Arch already has several Green Initiatives implemented in their daily operations. A few examples include:

- Rooftop herb garden and bee hives for honey production
- Establishing an Environmental Committee to direct and coordinate environmental initiatives within the hotel
- Training in environmental awareness and best practices provided to employees
- Executing communication strategies regarding environmental practices for guests, including a towel and sheet reuse program
- 76 to 100% of the lighting in conference rooms, meeting rooms and guestrooms uses higher efficiency bulbs
- Low flow showerheads, tap aerators and low flow toilets, toil dams or tank fill diverters have been installed in 76 to 100% of guestrooms
- Energy conservation practices including programmable energy management HVAC systems, automated hand dryers and prioritized use of natural light during daylight hours
- All waste in meeting rooms is sorted by staff for proper recycling, when recycling bins are not present.
- All food scraps from meeting events are diverted from the regular waste stream and composted
- Bulk jams, butters, condiments and creamers have replaced 76 to 100% of the individual serving sizes

LOCAL FARMS FEATURED ON YOUR CONFERENCE MENUS

The Our Farms, Our Future conference organizers and the Hyatt Regency staff worked together to ensure that local items were sourced for the food served during this event. Please look for the signs on the buffet tables at breaks and lunch service to learn which local farms supplied dairy, produce and meat for this event.

Acknowledgements

The Our Farms, Our Future conference was made possible by a diverse group of SARE and NCAT/ATTRA stakeholders and sustainable agriculture community members. In the course of planning this event, over 100 people contributed their ideas and constructive feedback, making the conference what it is today.

The conference organizers would especially like to acknowledge the significant contributions of our Program Committee members, who generously gave their time and energy to help make this event a reality. To all of our Program Committee members, thank you.

Stacie Clary, Western SARE
Deb Heleba, Northeast SARE
Ferd Hoefner, National Sustainable Agriculture Coalition
Candice Huber, Northeast SARE
Matthew Freund, Freund's Farm
Carl Little, NCAT/ATTRA
Robyn Metzger, NCAT/ATTRA
Rhonda Miller, Western SARE
Beth Nelson, North Central SARE and the University of Minnesota
Candace Pollock, Southern SARE
David Redhage, Southern SARE and the Kerr Center for Sustainable Agriculture

We are also grateful for the work of our Advisory Group, which met several times during the course of planning the conference to provide input on key aspects of the program. To all of our Advisory Group members, we give our thanks for your input.

Jill Auburn
Bob Barber
Bonnie Bobb
Colette DePhelps
Rex Dufour
Darin Eastburn
Scott Edwards
Jim Ewing
Jackie Folsom
Jim Freeburn
Elene Garcia
Judy Gifford
Margo Hale
Vicki Hebb
Mike Hogan
Charlie Jackson
Rick Juchems
Faith Kuehn
Julie Maitland
Susan Matsushima
Amanda McWhirt
Fabian Menalled
Mike Morris
Ginger Myers
Andy Pressman
Keith Richards
Erin Schneider
Cathy Svejkovsky
Jennifer Taylor
Donn Teske
Kent Wasson
Brain Wickline
Nancy Williams
Rockiell Woods

But of course, the work of our Program Committee and Advisory Group would have been for naught if it were not for our amazing group of volunteers, breakout and plenary session moderators and farm tour leaders. We send a huge thank you to these individuals for contributing their time to making the conversations and exchanges at this conference possible. We are also extremely thankful for the efforts of Sean McGovern, John Dorner, Lizi Barba and Andy Zieminski and those at NCAT/ATTRA who helped to promote the event and develop the website.

Last, but certainly not least, three people worked together closely on all the details of the conference. Kim Kroll and Rob Myers, who both have many years of contributions to the SARE program, served as co-chairs for the conference during the two year planning process, providing guidance on all facets of the program and logistics and handling budgeting and contracts for the conference. They had a superb collaborator in Sami Tellatin, who did all the day-to-day work on the conference involving many months of effort. This included tracking over 300 speaker suggestions, communicating back and forth with 108 speakers and three dozen moderators, personally visiting nearly 20 farms to select bus tours sites, developing the conference website, identifying local food sources, and many other details too numerous to list here. She was constantly conscious of trying to make the conference itself a sustainably-oriented event, and worked extremely hard to get the best possible program created in support of education, inspiration, and networking opportunities for attendees.

About the SARE Program

The USDA Sustainable Agriculture Research and Education (SARE) Program began 30 years ago in 1988. SARE's vision is an enduring American agriculture of the highest quality. This agriculture is profitable, protects the nation›s land and water and is a force for a rewarding way of life for farmers and ranchers whose quality products and operations sustain their communities and society.

SARE's mission is to advance—to the whole of American agriculture—innovations that improve profitability, stewardship and quality of life by investing in groundbreaking research and education.

Today, SARE operates in four regions across the U.S., administering grant programs and producing educational materials designed to advance innovations in sustainable agriculture. **Learn more about the program and access our resources at https://www.sare.org/.**

About NCAT/ATTRA

ATTRA is a program developed and managed by the National Center for Appropriate Technology (NCAT), and has been in operation since 1987. ATTRA is committed to providing high value information and technical assistance to farmers, ranchers, Extension agents, educators, and others involved in sustainable agriculture in the United States.

NCAT is a private nonprofit organization, founded in 1976, which manages a series of projects that promote self-reliance and sustainable lifestyles through wise use of appropriate technology. Its programs deal with sustainable and renewable energy, energy conservation, resource-efficient housing, sustainable community development, and sustainable agriculture.

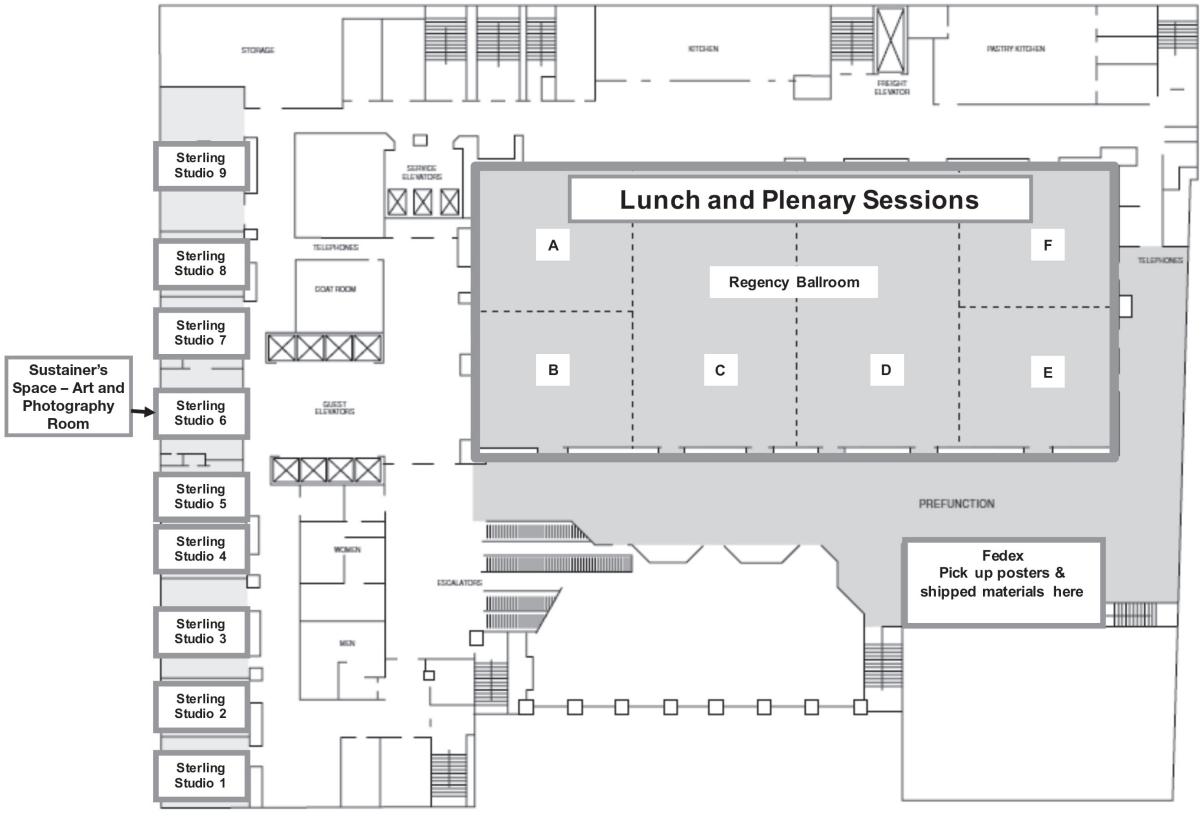
USDA Rural Business-Cooperative Service (USDA-RBS) helps implement the rural development mission of USDA and provides funds to support ATTRA in a cooperative agreement with NCAT. The RBS mission is to enhance the quality of life for all rural Americans by providing leadership in building competitive businesses including cooperatives that can build sustainable economic communities. RBS objectives are to invest its financial resources and technical assistance in businesses and communities, and to build partnerships that leverage public and private resources to stimulate rural economic activity.

ATTRA operates five regional offices across the country. **To learn more about the program and to access ATTRA's resources, go to: https://attra.ncat.org/**

Hotel Maps

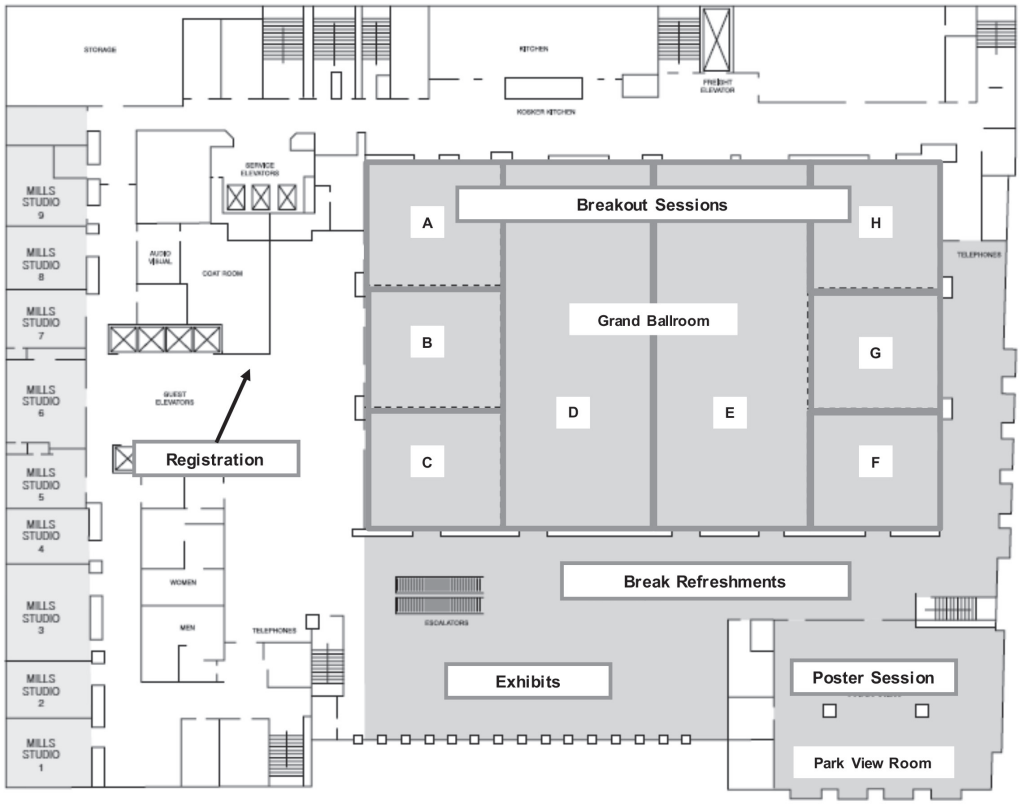
HYATT REGENCY

2ND FLOOR



Hotel Maps

4TH FLOOR



Hotel Maps

HYATT REGENCY 18TH FLOOR